

APC/Cyanine7 anti-mouse/human CD11b Antibody

Catalog# / Size	101225 / 25 µg 101226 / 100 µg
Clone	M1/70
Regulatory Status	RUO
Other Names	αM integrin, Mac-1, Mo1, CR3, Ly-40, C3biR, ITGAM
Isotype	Rat IgG2b, κ
Description	CD11b is a 170 kD glycoprotein also known as αM integrin, Mac-1 α subunit, Mol, CR3, and Ly-40. CD11b is a member of the integrin family, primarily expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b non-covalently associates with CD18 (β2 integrin) to form Mac-1. Mac-1 plays an important role in cell-cell interaction by binding its ligands ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen.

Product Details

Verified Reactivity	Mouse, Human, Cynomolgus, Rhesus
Reported Reactivity	Chimpanzee, Baboon, Rabbit
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	C57BL/10 splenocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone M1/70 has been verified for immunocytochemistry (ICC) and frozen immunohistochemistry (IHC-F). Additional reported applications (for relevant formats of this clone) include: immunoprecipitation ^{1,4} , <i>in vitro</i> blocking ^{3,9,12} , depletion ^{2,8} , immunofluorescence microscopy ^{6,7,10} , immunohistochemistry of acetone-fixed frozen sections ^{5,11-13} , and spatial biology (IBEX) ^{35,36} . For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) (Cat. No. 101248).
Additional Product Notes	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	1. Springer T, <i>et al.</i> 1978. <i>Eur. J. Immunol.</i> 8:539. (IP) 2. Ault K and Springer T. 1981. <i>J. Immunol.</i> 126:359. (Deplete) 3. Springer TA, <i>et al.</i> 1982. <i>Immunol. Rev.</i> 68:171. (Block)
(PubMed link indicates BioLegend citation)	

4. Ho MK and Springer TA. 1983. *J. Biol. Chem.* 258:2766. (IP)
5. Flotte TJ, *et al.* 1983. *Am. J. Pathol.* 111:112. (IHC)
6. Noel GJ, *et al.* 1990. *J. Clin. Invest.* 85:208. (IF)
7. Allen LA and Aderem A. 1996. *J. Exp. Med.* 184:627 (IF)
8. D'Amico A and Wu L. 2003. *J. Exp. Med.* 198:293. (Deplete)
9. Brickson SJ, *et al.* 2003. *Appl Physiol.* 95:969. (Block)
10. Clatworthy MR and Smith KG. 2004. *J. Exp. Med.* 199:717. (IF)
11. Hata H, *et al.* 2004. *J. Clin. Invest.* 114:582. (IHC)
12. Zhang Y, *et al.* 2002. *J. Immunol.* 168:3088. (IHC)
13. Iwasaki A and Kelsall BL. 2001. *J. Immunol.* 166:4884 (IHC, FC)
14. Tailleux L. 2003. *J. Exp. Med.* 197:121. (Block, FC)
15. Olver S, *et al.* 2006. *Cancer Research* 66:571. (FC)
16. Tan SL, *et al.* 2006. *J. Immunol.* 176:2872. (FC) [PubMed](#)
17. Ponomarev ED, *et al.* 2006. *J. Immunol.* 176:1402. (FC)
18. Dzhagalov I, *et al.* 2007. *Blood* 109:1620. (FC)
19. Fazilleau N, *et al.* 2007. *Nature Immunol.* 8:753.
20. Rasmussen JW, *et al.* 2006. *Infect. Immun.* 74:6590. [PubMed](#)
21. Napimoga MH, *et al.* 2008. *J. Immunol.* 180:609. [PubMed](#)
22. Elqaraz-Carmon V, *et al.* 2008. *J. Lipid. Res.* 49:1894. [PubMed](#)
23. Kim DD, *et al.* 2008. *Blood* 112:1109. [PubMed](#)
24. Guo Y, *et al.* 2008. *Blood* 112:480. [PubMed](#)
25. Norian LA, *et al.* 2009. *Cancer Res.* 69:3086. (FC) [PubMed](#)
26. Baumgartner CK, *et al.* 2010. *J. Immunol.* 184:573. [PubMed](#)
27. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
28. Whiteland J, *et al.* 1995. *J. Histochem. Cytochem.* 43:313. (IHC)
29. Weber GF, *et al.* 2014. *J Exp Med.* 211:1243. [PubMed](#)
30. Ashok A, *et al.* 2015. *Toxicol Sci.* 143:64. [PubMed](#)
31. Price PJ, *et al.* 2015. *J Immunol.* 194:1164. [PubMed](#)
32. Doni A, *et al.* 2015. *J Exp Med.* 212:905. [PubMed](#)
33. Ferreira R, *et al.* 2016. *J Infect Dis.* 213: 669 - 673. [PubMed](#)
34. Peterson VM, *et al.* 2017. *Nat. Biotechnol.* 35:936. (PG)
35. Radtke AJ, *et al.* 2020. *Proc Natl Acad Sci U S A.* 117:33455-65. (SB) [PubMed](#)
36. Radtke AJ, *et al.* 2022. *Nat Protoc.* 17:378-401. (SB) [PubMed](#)

Product Citations

1. Brown A, *et al.* 2012. *Arterioscler Thromb Vasc Biol.* 32:2122. [PubMed](#)
2. Dixit N, *et al.* 2012. *J Immunol.* 189:5954. [PubMed](#)
3. Wangdi T, *et al.* 2014. *PLoS Pathog.* 10:1004306. [PubMed](#)
4. Chung Y, *et al.* 2014. *J Vis Exp.* 89: 51660. [PubMed](#)
5. Daemen S, *et al.* 2021. *Cell Reports.* 34(2):108626. [PubMed](#)
6. Sweet R, *et al.* 2017. *J Immunol.* 10.4049/jimmunol.1600861. [PubMed](#)
7. Filippello F *et al.* 2018. *Immunity.* 48(5):979-991 . [PubMed](#)
8. Mathur R, *et al.* 2019. *Mucosal Immunol.* 12:612. [PubMed](#)
9. Miragaia RJ, *et al.* 2019. *Immunity.* 50:493. [PubMed](#)
10. Casellas Roman HL, *et al.* 2020. *Leuk Res.* 94:106372. [PubMed](#)
11. Yokozeki Y, *et al.* 2021. *Biomed Res Int.* 2021:7988320. [PubMed](#)
12. Hutter K, *et al.* 2022. *Front Immunol.* 13:967914. [PubMed](#)
13. Garcia-Fabiani MB, *et al.* 2020. *Methods Enzymol.* 632:369. [PubMed](#)
14. Viny AD, *et al.* 2019. *Cell Stem Cell.* 25:682. [PubMed](#)
15. Zhou J, *et al.* 2019. *Immunity.* 50:403. [PubMed](#)
16. Fachi JL *et al.* 2019. *Cell reports.* 27(3):750-761 . [PubMed](#)
17. Cho SM *et al.* 2018. *Journal of neurochemistry.* 148(5):625-638 . [PubMed](#)
18. Yang N, *et al.* 2022. *NPJ Vaccines.* 7:120. [PubMed](#)
19. Schloss MJ, *et al.* 2022. *Nat Immunol.* 23:605. [PubMed](#)
20. Golden GJ, *et al.* 2021. *MBio.* 12:e0118121. [PubMed](#)
21. Schönberger K, *et al.* 2022. *Cell Stem Cell.* 29:131. [PubMed](#)
22. Nguyen NDNT, *et al.* 2020. *NPJ Vaccines.* 5:7. [PubMed](#)
23. Larson-Casey JL, *et al.* 2021. *FASEB J.* 35:e21675. [PubMed](#)
24. Savio LEB, *et al.* 2020. *J Cell Sci.* 133:jcs237560. [PubMed](#)
25. Gattas MJ, *et al.* 2021. *International Journal of Molecular Sciences.* 22(10):. [PubMed](#)
26. Yilmaz B, *et al.* 2021. *Cell Host Microbe.* 29(4):650-663.e9. [PubMed](#)
27. Clarke F, *et al.* 2017. *PLoS One.* 10.1371/journal.pone.0186625. [PubMed](#)
28. Giambra V *et al.* 2018. *Cell stem cell.* 23(5):714-726 . [PubMed](#)
29. Lino AC *et al.* 2018. *Immunity.* 49(1):120-133 . [PubMed](#)
30. Zhang K, *et al.* 2018. *PLoS Pathog.* 14:e1006925. [PubMed](#)
31. Delás MJ, *et al.* 2019. *Cell Rep.* 27:719. [PubMed](#)
32. Kashyap AS, *et al.* 2019. *Cell Rep.* 28:3367. [PubMed](#)
33. Yang M, *et al.* 2020. *Cell Prolif.* 53:e12784. [PubMed](#)
34. Sakamoto T, *et al.* 2021. *Commun Biol.* 4:1165. [PubMed](#)
35. Chen S, *et al.* 2022. *Cancer Discov. .* [PubMed](#)
36. Jenull S, *et al.* 2021. *Cell Reports.* 36(3):109406. [PubMed](#)
37. Delacher M, *et al.* 2021. *Immunity.* 54(4):702-720.e17. [PubMed](#)
38. Liang W, *et al.* 2020. *Nat Commun.* 4.563888889. [PubMed](#)
39. Clement M, *et al.* 2016. *PLoS Pathog.* 12:e1006050. [PubMed](#)
40. Billroth-MacLurg, AC, *et al.* 2016. *J Immunol.* 197:2208-2218. [PubMed](#)
41. Eastman A, *et al.* 2016. *J Immunol.* 194: 5999-6010. [PubMed](#)
42. Zaslona Z, *et al.* 2014. *J Immunol.* 193:4245. [PubMed](#)
43. Spees A, *et al.* 2013. *MBio.* 2:430. [PubMed](#)
44. Harel M, *et al.* 2020. *Cell.* 179(1):236-250.e18.. [PubMed](#)

45. Li Y, *et al.* 2020. *Cell Rep.* 30:1753. [PubMed](#)
46. Wong E, *et al.* 2019. *Cell Rep.* 29:3047. [PubMed](#)
47. Yuzhu Hou *et al.* 2018. *Immunity.* 49(3):490-503 . [PubMed](#)
48. Achmus L, *et al.* 2020. *Front Neurol.* 11:577971. [PubMed](#)
49. Nagatake T, *et al.* 2022. *Mucosal Immunol.* 15:289. [PubMed](#)
50. Leimkühler NB, *et al.* 2020. *Cell Stem Cell.* 28:637. [PubMed](#)
51. Getts D, *et al.* 2014. *Sci Transl Med.* 15:219. [PubMed](#)
52. Tanaka Y, *et al.* 2015. *PLoS One.* 10: 0138621. [PubMed](#)
53. Palamides P, *et al.* 2016. *Dis Model Mech.* 9: 985 - 997. [PubMed](#)
54. Wang H, *et al.* 2019. *Immunotherapy.* 11:101. [PubMed](#)
55. Davis FM, *et al.* 2019. *Arterioscler Thromb Vasc Biol.* 39:2353. [PubMed](#)
56. Di Gioia M, *et al.* 2020. *Nat Immunol.* 21:42. [PubMed](#)
57. Kleinholz CL, *et al.* 2021. *Sci Rep.* 11:15071. [PubMed](#)
58. Inoue D, *et al.* 2021. *Nat Genet.* 53:707. [PubMed](#)
59. Go DM, *et al.* 2021. *Cell Mol Gastroenterol Hepatol.* 12:715. [PubMed](#)
60. Enriquez AB, *et al.* 2022. *iScience.* 25:104305. [PubMed](#)
61. Yang F, *et al.* 2020. *Cancer Res.* 80:3677. [PubMed](#)
62. Hoffman D, *et al.* 2021. *Immunity.* 54:2712. [PubMed](#)
63. Diao N, *et al.* 2016. *Sci Rep.* 6:34672. [PubMed](#)
64. Krueger K, *et al.* 2014. *Stem Cell Reports.* 9:1147. [PubMed](#)
65. Saika A, *et al.* 2020. *FASEB Bioadv.* 2:59. [PubMed](#)
66. Bhattacharjee A, *et al.* 2019. *Commun Biol.* 2:450. [PubMed](#)
67. Yoshimi A, *et al.* 2019. *Nature.* 574:273. [PubMed](#)
68. Mariani SA, *et al.* 2019. *Immunity.* 50:1439. [PubMed](#)
69. Bhattacharjee A, *et al.* 2021. *Mol Neurodegener.* 16:19. [PubMed](#)
70. Wang C, *et al.* 2021. *Cell Rep.* 37:110021. [PubMed](#)
71. Stahlhut M, *et al.* 2021. *Sci Rep.* 11:5294. [PubMed](#)
72. Gordon RA, *et al.* 2020. *PLoS One.* 15:e0226396. [PubMed](#)
73. Glass A, *et al.* 2013. *J Immunol.* 190:4830. [PubMed](#)
74. Kurkewich J, *et al.* 2016. *PLoS One.* 11: 0161468. [PubMed](#)
75. Jeljeli M, *et al.* 2020. *Cell Rep.* 33:108325. [PubMed](#)
76. Hagan AS, *et al.* 2020. *Development.* 147:00:00. [PubMed](#)
77. Wei SC, *et al.* 2020. *Cancer Discov.* . [PubMed](#)
78. Dos Santos Dias L, *et al.* 2021. *PLoS Pathog.* e1009324:17. [PubMed](#)
79. Kunimoto H, *et al.* 2018. *Cancer Cell.* 33:44. [PubMed](#)
80. Perry JSA, *et al.* 2018. *Immunity.* 48:923. [PubMed](#)
81. Parlet CP, *et al.* 2019. *Cell Rep.* 27:187. [PubMed](#)
82. Zhang S, *et al.* 2019. *Cell Metab.* 29:443. [PubMed](#)
83. Davidson S, *et al.* 2020. *Cell Reports.* 31(7):107628. [PubMed](#)
84. Garcia-Bonilla M, *et al.* 2020. *Stem Cell Res Ther.* 11:121. [PubMed](#)
85. Goggi JL, *et al.* 2020. *Mol Imaging Biol.* 22:1392. [PubMed](#)
86. Zhang X, *et al.* 2022. *Theranostics.* 12:1621. [PubMed](#)
87. Enriquez AB, *et al.* 2022. *iScience.* 25:104305. [PubMed](#)
88. Wu X, *et al.* 2021. *Elife.* 10:. [PubMed](#)
89. Wang B, *et al.* 2022. *Nat Commun.* 13:3821. [PubMed](#)
90. Jiang N, *et al.* 2022. *Nat Commun.* 13:1511. [PubMed](#)
91. Kirschbaum K, *et al.* 2016. *Proc Natl Acad Sci U S A.* 113: 13227 - 13232. [PubMed](#)
92. Ano Y, *et al.* 2017. *J Biol Chem.* 292:3720. [PubMed](#)
93. Cong J *et al.* 2018. *Cell metabolism.* 28(2):243-255 . [PubMed](#)
94. Kleppe M *et al.* 2018. *Cancer cell.* 33(1):29-43 . [PubMed](#)
95. Yang L, *et al.* 2021. *Cell Death Differ.* 28:2616. [PubMed](#)
96. McAlpine CS, *et al.* 2021. *Nature.* 595:701. [PubMed](#)
97. Naler LB, *et al.* 2022. *Commun Biol.* 5:102. [PubMed](#)
98. Kornstädt L, *et al.* 2021. *Front Immunol.* 11:607048. [PubMed](#)
99. Hutter K, *et al.* 2020. *FEBS J.* . [PubMed](#)
100. Zhao J, *et al.* 2018. *Stem Cell Reports.* 10:180. [PubMed](#)
101. Mamedov MR, *et al.* 2018. *Immunity.* 48:350. [PubMed](#)
102. Codina A, *et al.* 2019. *Cell Syst.* 8:136. [PubMed](#)
103. Hulsmans M *et al.* 2017. *Cell.* 169(3):510-522 . [PubMed](#)
104. Yu X, *et al.* 2020. *Nat Commun.* 0.641666667. [PubMed](#)
105. Kobayashi M, *et al.* 2020. *Bio Protoc.* 10:e3601. [PubMed](#)
106. Geng S, *et al.* 2021. *JCI Insight.* 6:. [PubMed](#)
107. Formaglio P, *et al.* 2021. *Immunity.* 54:2724. [PubMed](#)
108. Pan Y, *et al.* 2022. *J Clin Invest.* 132:. [PubMed](#)
109. Zhu Y, *et al.* 2022. *Clin Transl Med.* 12:e887. [PubMed](#)
110. Feng S, *et al.* 2022. *Front Immunol.* 13:990522. [PubMed](#)
111. Witkowski MT, *et al.* 2020. *Cancer Cell.* 37:867. [PubMed](#)
112. Hu Y, *et al.* 2021. *Bioact Mater.* 2905:6. [PubMed](#)
113. Mulas F, *et al.* 2020. *Cell Mol Immunol.* . [PubMed](#)
114. McFarland AP, *et al.* 2021. *Immunity.* 54(6):1320-1337.e4. [PubMed](#)
115. Kenswil KJG, *et al.* 2021. *Cell Stem Cell.* 28(4):653-670.e11. [PubMed](#)
116. Zhang C, *et al.* 2020. *Cell Rep.* 32:108206. [PubMed](#)
117. Mishra BB, *et al.* 2017. *Nat Microbiol.* 2:17072. [PubMed](#)
118. Niknam S, *et al.* 2018. *Clin Cancer Res.* 24:5735. [PubMed](#)
119. Vicencio JM, *et al.* 2022. *Cell Death Dis.* 13:274. [PubMed](#)
120. Pradhan K, *et al.* 2021. *Front Immunol.* 12:778830. [PubMed](#)
121. Panea C, *et al.* 2021. *Commun Biol.* 4:913. [PubMed](#)
122. Guldner IH, *et al.* 2020. *Cell.* 183(5):1234-1248.e25. [PubMed](#)
123. Lim CX, *et al.* 2020. *Cell Rep.* 3793:30. [PubMed](#)
124. Martínez-López M *et al.* 2019. *Immunity.* 50(2):446-461 . [PubMed](#)

125. Casulli J, *et al.* 2019. Nat Commun. 10:2121. [PubMed](#)
126. Xiong X *et al.* 2019. Mol Cell. 75(3):644-660 . [PubMed](#)
127. Zhang H, *et al.* 2019. Mol Cell. 76:110. [PubMed](#)
128. Pietronigro E, *et al.* 2019. Sci Rep. 9:12055. [PubMed](#)
129. Pfefferlé M, *et al.* 2021. Front Immunol. 12:680855. [PubMed](#)
130. Ma S, *et al.* 2022. Cell Rep. 38:110520. [PubMed](#)
131. Unudurthi SD, *et al.* 2020. Life Sci. 117440:247. [PubMed](#)
132. Yi W, *et al.* 2021. Cell Reports. 34(13):108922. [PubMed](#)
133. Murakami K, *et al.* 2021. Cell Reports. 34(1):108579. [PubMed](#)
134. LM S, *et al.* 2016. Cell Rep. 16(12): 3286-96. [PubMed](#)
135. Lammers K, *et al.* 2015. PLoS One. 10: 0138338. [PubMed](#)
136. Ermer D, *et al.* 2016. PLoS Pathog. 11: 1005043. [PubMed](#)
137. Choi EW, *et al.* 2020. Sci Rep. 10:12001. [PubMed](#)
138. Crane A, *et al.* 2018. Alzheimers Dement. 14:243. [PubMed](#)
139. Chen Z, *et al.* 2019. J Exp Med. 216:152. [PubMed](#)
140. Nagatake T, *et al.* 2018. Int Immunol. 30:471. [PubMed](#)
141. Landon J Edgar *et al.* 2018. Cell chemical biology. 26(1):131-136 . [PubMed](#)
142. Liu S, *et al.* 2018. Front Immunol. 29:208. [PubMed](#)
143. Yang S, *et al.* 2022. J Exp Med. 219:. [PubMed](#)
144. Cheresh P, *et al.* 2020. Int J Mol Sci. 21:. [PubMed](#)
145. Frost JN, *et al.* 2021. Med (N Y). 2:164. [PubMed](#)
146. Larson-Casey JL, *et al.* 2021. J Biol Chem. :100810. [PubMed](#)
147. San Gil R, *et al.* 2021. Cells. 10: . [PubMed](#)
148. Yabas M, *et al.* 2016. PLoS One. 11: 0146774. [PubMed](#)
149. Wu X, *et al.* 2016. Sci Rep. 6:18685. [PubMed](#)
150. Savio LEB, *et al.* 2020. J Cell Sci. 133:00:00. [PubMed](#)
151. Li CJ, *et al.* 2018. J Clin Invest. 128:5251. [PubMed](#)
152. Goldstein JM *et al.* 2019. Cell reports. 27(4):1254-1264 . [PubMed](#)
153. Li B, *et al.* 2019. Oncol Rep. 41:608. [PubMed](#)
154. Carestia A, *et al.* 2019. Cell Rep. 28:896. [PubMed](#)
155. Daemen S, *et al.* 2021. STAR Protoc. 2:100511. [PubMed](#)
156. Shibad V, *et al.* 2021. Front Immunol. 12:722451. [PubMed](#)
157. Zhang X, *et al.* 2021. Mol Cancer Res. 19:1076. [PubMed](#)
158. Robles-Oteiza C, *et al.* 2021. Dis Model Mech. 14:. [PubMed](#)
159. Gómez LA, *et al.* 2020. Front Microbiol. 11:1586. [PubMed](#)
160. Xu X, *et al.* 2022. EMBO Rep. 23:e53509. [PubMed](#)
161. Taya M, *et al.* 2020. Endocr Relat Cancer. 27:261. [PubMed](#)
162. Hirata SI, *et al.* 2020. Allergy. 75:1939. [PubMed](#)
163. Larson-Casey JL, *et al.* 2020. PLoS One. 15:e0241323. [PubMed](#)
164. Kim M, *et al.* 2018. Immunity. 49:151. [PubMed](#)
165. Nowak W, *et al.* 2020. EBioMedicine. 50:290-305.. [PubMed](#)
166. Nagatake T, *et al.* 2018. J Allergy Clin Immunol. 142:470. [PubMed](#)
167. Qiao S, *et al.* 2019. J Neuroinflammation. 16:4. [PubMed](#)
168. Duarte D, *et al.* 2018. Cell Stem Cell. 22:64. [PubMed](#)
169. Sia J, *et al.* 2017. PLoS Pathog.. 10.1371/journal.ppat.1006530. [PubMed](#)
170. Zhang CR, *et al.* 2022. Blood Cancer Discov. 3:220. [PubMed](#)
171. Anderson-Baucum E, *et al.* 2021. Cell Metab. 33:1883. [PubMed](#)
172. Mendelsohn AC, *et al.* 2020. Am J Physiol Cell Physiol. 319:C997. [PubMed](#)
173. King R, *et al.* 2021. Sci Adv. 7:eabj5293. [PubMed](#)
174. Murdock BJ, *et al.* 2021. JCI Insight. 6:. [PubMed](#)
175. Celik H, *et al.* 2018. Cancer Cell. 34:741. [PubMed](#)
176. Yin S *et al.* 2019. Cancer cell. 35(2):283-296 . [PubMed](#)
177. Zhao Y, *et al.* 2020. Immunity. 51(6):1059-1073.e9.. [PubMed](#)
178. Soncin I, *et al.* 2018. Nat Commun. 9:582. [PubMed](#)
179. Bhatt D, *et al.* 2021. J Exp Med. 218:. [PubMed](#)
180. Karolin A, *et al.* 2022. Front Pharmacol. 12:789080. [PubMed](#)
181. Gao Z, *et al.* 2022. J Inflamm Res. 15:3337. [PubMed](#)
182. Jing Y, *et al.* 2021. Front Immunol. 12:651860. [PubMed](#)
183. Tomimatsu M, *et al.* 2022. Sci Rep. 12:16656. [PubMed](#)
184. Wang Z, *et al.* 2020. J Cell Mol Med. . [PubMed](#)
185. Dallari S, *et al.* 2021. Cell Host Microbe. 29(6):1014-1029.e8. [PubMed](#)
186. Rustenhoven J, *et al.* 2021. Cell. 184(4):1000-1016.e27. [PubMed](#)
187. Flores AM, *et al.* 2020. Nat Nanotechnol. 0.731944444. [PubMed](#)
188. McKenzie MD, *et al.* 2019. Cell Stem Cell. 25:258. [PubMed](#)
189. Tulyeu J, *et al.* 2021. Curr Protoc. 1:e283. [PubMed](#)
190. Zhang W, *et al.* 2021. Front Immunol. 12:768435. [PubMed](#)
191. Yoshida H, *et al.* 2019. Cell. 176:897. [PubMed](#)
192. Hoyer FF, *et al.* 2020. Immunity. 51(5):899-914.e7.. [PubMed](#)
193. Pradhan K, *et al.* 2021. J Immunol. 206:2980. [PubMed](#)
194. Smith KJ, *et al.* 2022. PLoS Biol. 20:e3001554. [PubMed](#)
195. Zhang L, *et al.* 2021. Front Mol Biosci. 8:647647. [PubMed](#)
196. Liu Q, *et al.* 2021. Adv Mater. 33:e2102852. [PubMed](#)
197. Lin R, *et al.* 2022. Cell Death Dis. 13:345. [PubMed](#)
198. Luo X, *et al.* 2021. Neuron. 109(17):2691-2706.e5. [PubMed](#)
199. Siolas D, *et al.* 2021. Cell Reports. 36(8):109578. [PubMed](#)
200. Aryal B, *et al.* 2016. Nat Commun. 7:12313. [PubMed](#)
201. Lee MC, *et al.* 2017. J Immunol. 198:3565. [PubMed](#)
202. Säwen P *et al.* 2018. eLife. 7 pii: e41258. [PubMed](#)
203. Luo H, *et al.* 2019. Cell Rep. 26:945. [PubMed](#)
204. Fite BZ, *et al.* 2021. Sci Rep. 11:927. [PubMed](#)

205. Liu X, *et al.* 2021. *Adv Sci (Weinh)*. 8:e2100233. [PubMed](#)
206. Chavkin NW, *et al.* 2021. *J Am Heart Assoc*. 10:e019904. [PubMed](#)
207. Li A, *et al.* 2018. *Cancer Lett*. 431:54. [PubMed](#)
208. Larson–Casey JL, *et al.* 2019. *J Clin Invest*. 129:4962. [PubMed](#)
209. Das A, *et al.* 2020. *J Bone Miner Res*. 36:199. [PubMed](#)
210. Zheng C, *et al.* 2021. *J Extracell Vesicles*. 10:e12109. [PubMed](#)
211. Park HJ, *et al.* 2021. *Int J Mol Sci*. 22:. [PubMed](#)
212. Wang X, *et al.* 2021. *Sci Transl Med*. 13:. [PubMed](#)
213. Lau A, *et al.* 2022. *Sci Adv*. 8:eabm0142. [PubMed](#)
214. Lippeveld M, *et al.* 2020. *Cytometry A*. 97:308. [PubMed](#)
215. Avgustinova A, *et al.* 2021. *Cell Stem Cell*. . [PubMed](#)
216. Cortez MA, *et al.* 2020. *Nat Commun*. 3.819444444. [PubMed](#)
217. C Khouili S, *et al.* 2020. *Cell Rep*. 33:108468. [PubMed](#)
218. Geng S, *et al.* 2016. *Nat Commun*. 7:13436. [PubMed](#)
219. Denk F, *et al.* 2016. *Cell Rep*. 15: 1771-1781. [PubMed](#)
220. Richardson M, *et al.* 2014. *PLoS Negl Trop Dis*. 8:2825. [PubMed](#)
221. Ge Y, *et al.* 2020. *Mucosal Immunol*. 13:34. [PubMed](#)
222. Cabal-Hierro L, *et al.* 2020. *Nat Commun*. 11:1406. [PubMed](#)
223. Syed I *et al.* 2018. *Cell metabolism*. 27(2):419-427 . [PubMed](#)
224. Patterson DG, *et al.* 2021. *J Immunol*. 207:1798. [PubMed](#)

RRID AB_830641 (BioLegend Cat. No. 101225)
 AB_830642 (BioLegend Cat. No. 101226)

Antigen Details

Structure	Integrin family, associates with integrin β_2 (CD18), 170 kD
Distribution	Granulocytes, monocytes/macrophages, dendritic cells, NK cells, subsets of T and B cells
Function	Adhesion, chemotaxis
Ligand/Receptor	ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, fibrinogen
Cell Type	B cells, Dendritic cells, Granulocytes, Macrophages, Monocytes, Neutrophils, NK cells, T cells, Tregs
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Barclay A, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press. 2. Springer TA. 1994. <i>Cell</i> 76:301. 3. Coxon A, <i>et al.</i> 1996. <i>Immunity</i> 5:653.
Gene ID	16409 3684

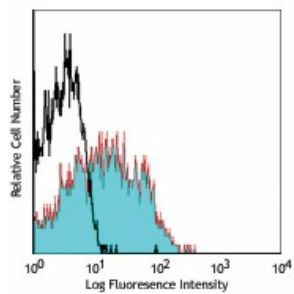
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-mouse/human CD11b, Biotin anti-mouse/human CD11b, FITC anti-mouse/human CD11b, PE anti-mouse/human CD11b, PE/Cyanine5 anti-mouse/human CD11b, Purified anti-mouse/human CD11b, PE/Cyanine7 anti-mouse/human CD11b, Alexa Fluor® 488 anti-mouse/human CD11b, Alexa Fluor® 647 anti-mouse/human CD11b, Alexa Fluor® 700 anti-mouse/human CD11b, Pacific Blue™ anti-mouse/human CD11b, APC/Cyanine7 anti-mouse/human CD11b, PerCP/Cyanine5.5 anti-mouse/human CD11b, PerCP anti-mouse/human CD11b, Brilliant Violet 421™ anti-mouse/human CD11b, Brilliant Violet 570™ anti-mouse/human CD11b, Brilliant Violet 605™ anti-mouse/human CD11b, Brilliant Violet 650™ anti-mouse/human CD11b, Brilliant Violet 711™ anti-mouse/human CD11b, Brilliant Violet 785™ anti-mouse/human CD11b, Brilliant Violet 510™ anti-mouse/human CD11b, Ultra-LEAF™ Purified anti-mouse/human CD11b, Purified anti-mouse/human CD11b (Maxpar® Ready), Alexa Fluor® 594 anti-mouse/human CD11b, PE/Dazzle™ 594 anti-mouse/human CD11b, APC/Fire™ 750 anti-mouse/human CD11b, TotalSeq™-A0014 anti-mouse/human CD11b, Brilliant Violet 750™ anti-mouse/human CD11b, TotalSeq™-B0014 anti-mouse/human CD11b, TotalSeq™-C0014 anti-mouse/human CD11b, Spark NIR™ 685 anti-mouse/human CD11b, PE/Fire™ 640 anti-mouse/human CD11b, Spark YG™ 593 anti-mouse/human CD11b, Spark YG™ 570 anti-mouse/human CD11b, PE/Fire™ 810 anti-mouse/human CD11b, APC/Fire™ 810 anti-

Product Data



C57BL/6 mouse bone marrow stained with M1/70 APC/Cyanine7

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587