

PerCP/Cyanine5.5 anti-human CD66b Antibody

Catalog# / Size	305107 / 25 tests 305108 / 100 tests
Clone	G10F5
Regulatory Status	RUO
Workshop	VI MA81
Other Names	CD67, CGM6, NCA-95, CEACAM8
Isotype	Mouse IgM, κ
Description	CD66b is a 95-100 kD glycosylphosphatidylinositol (GPI)-linked protein also known as CD67, CGM6, and NCA-95. CD66b is a member of the immunoglobulin superfamily, carcinoembryonic antigen (CEA)-like subfamily. CD66b, expressed on granulocytes, has been reported to induce activation in neutrophils and to be involved in heterophilic adhesion with CD66c.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen, formalin-fixed paraffin-embedded tissue sections, and spatial biology (IBEX) ^{5,6} .
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References	<ol style="list-style-type: none"> Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London. Norling LV, <i>et al.</i> 2012. <i>Arterioscler Thromb Vasc Biol.</i> 32:1970. PubMed Meinke P, <i>et al.</i> 2015. <i>Neuroimmunol Discord.</i> 25:127. PubMed Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) PubMed Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
(PubMed link indicates BioLegend citation)	

Product Citations

1. Fantone K, *et al.* 2021. *Pathogens*. 10: PubMed
2. Alcántara-Hernández M *et al.* 2017. *Immunity*. 47(6):1037-1050 . PubMed
3. Klichinsky M, *et al.* 2020. *Nat Biotechnol*. 38:947. PubMed
4. Thom S, *et al.* 2012. *J Appl Physiol*. 112:1268. PubMed
5. Rodda LB, *et al.* 2020. *Cell*. 184(1):169-183.e17. PubMed
6. Arcos J, *et al.* 2015. *J Infect Dis*. 212: 948-958. PubMed
7. Xu J, *et al.* 2013. *Toxicol Appl Pharmacol*. 273:410. PubMed
8. Leylek R, *et al.* 2019. *Cell Rep*. 29:3736. PubMed
9. Szentkereszty M, *et al.* 2020. *Pathol Oncol Res*. 26:1117. PubMed
10. Chu TY, *et al.* 2022. *Nat Commun*. 13:6385. PubMed
11. Whiting C, *et al.* 2015. *PLoS One*. 10: 0133627. PubMed
12. Hough KP, *et al.* 2020. *Methods*. 27:177. PubMed
13. Kim MY, *et al.* 2018. *Cell*. 173:1439. PubMed
14. Schoofs T *et al.* 2019. *Immunity*. 50(6):1513-1529 . PubMed
15. Ram-Mohan N, *et al.* 2021. *Life Sci Alliance*. 4: PubMed
16. Yang M, *et al.* 2012. *J Appl Physiol*. 112:204. PubMed
17. Hakki S, *et al.* 2022. *Sci Rep*. 12:1427. PubMed
18. Wang Z, *et al.* 2020. *J Cell Mol Med*. PubMed
19. Lee J, *et al.* 2015. *J Exp Med*. 212:385. PubMed
20. Breton G, *et al.* 2015. *J Exp Med*. 212:401. PubMed
21. Metzemaekers M, *et al.* 2021. *Clin Transl Immunology*. 10:e1271. PubMed
22. Tan EE, *et al.* 2020. *J Clin Invest*. 130:5817. PubMed
23. Thom S, *et al.* 2013. *J Appl Physiol*. 114:1396. PubMed
24. Leylek R, *et al.* 2020. *Cell Rep*. 32:108180. PubMed
25. Barrera L, *et al.* 2017. *Br J Cancer*. 10.1038/bjc.2017.173. PubMed
26. Pinkert J, *et al.* 2022. *Oncoimmunology*. 11:2008110. PubMed

RRID AB_2077856 (BioLegend Cat. No. 305107)
 AB_2077855 (BioLegend Cat. No. 305108)

Antigen Details

Structure	Ig superfamily, CEA antigen group, GPI-linked glycoprotein, 95-100 kD
Distribution	Granulocytes
Function	Cell adhesion, neutrophil activation
Ligand/Receptor	CD66c
Cell Type	Granulocytes, Neutrophils
Biology Area	Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Kuijpers T, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:4934. 2. Kuroki M, <i>et al.</i> 1992. <i>J. Leuk. Biol.</i> 52:551.
Gene ID	1088

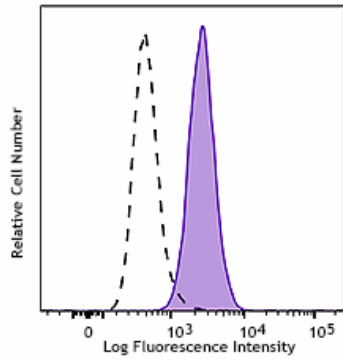
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-human CD66b, Purified anti-human CD66b, Pacific Blue™ anti-human CD66b, PE anti-human CD66b, PerCP/Cyanine5.5 anti-human CD66b, Alexa Fluor® 647 anti-human CD66b, Alexa Fluor® 700 anti-human CD66b, PE/Cyanine7 anti-human CD66b, APC anti-human CD66b, Biotin anti-human CD66b, PE/Dazzle™ 594 anti-human CD66b, Alexa Fluor® 594 anti-human CD66b, APC/Cyanine7 anti-human CD66b, GMP FITC anti-human CD66b

Product Data



Human peripheral blood granulocytes were stained with CD66b (clone G10F5) PerCP/Cyanine5.5 (filled histogram) mouse IgM, ? PerCP/Cyanine5.5 isotype control (open histogram).

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