

PE/Cyanine7 anti-human CD66b Antibody

Catalog# / Size	305115 / 25 tests 305116 / 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 PE/Cyanine7 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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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 PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please 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	<ol style="list-style-type: none"> Oostindie SC, <i>et al.</i> 2022. <i>Nat Biotechnol.</i> .: PubMed

2. Mulfaul K, *et al.* 2020. *Cell Rep.* 30:2209. [PubMed](#)
3. Ziegler CGK, *et al.* 2021. *Cell.* 184(18):4713-4733.e22. [PubMed](#)
4. Rohner L, *et al.* 2020. *Sci Rep.* 0.570833333. [PubMed](#)
5. Xu P, *et al.* 2020. *Cancer Immunol Res.* 8:1193. [PubMed](#)
6. Le J, *et al.* 2020. *Immunity.* 52(6):1105-1118.e9. [PubMed](#)
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8. Asada S, *et al.* 2018. *Nat Commun.* 9:2733. [PubMed](#)
9. Lee GR, *et al.* 2021. *JCI Insight.* 6:. [PubMed](#)
10. Jia J, *et al.* 2022. *Nat Commun.* 13:6804. [PubMed](#)
11. Luoma AM, *et al.* 2020. *Cell.* 182(3):655-671.e22. [PubMed](#)

RRID AB_2566604 (BioLegend Cat. No. 305115)
 AB_2566605 (BioLegend Cat. No. 305116)

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

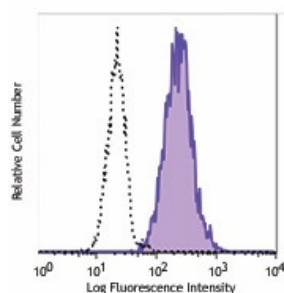
Related Protocols

[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) PE/Cyanine7 (filled histogram) or mouse IgM, κ PE/Cyanine7 isotype control (open histogram).

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