

Purified anti-human CD66b Antibody

Catalog# / Size	305102 / 100 µg
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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-P - Verified
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 ≤1.0 µg per million cells in 100 µl volume. For immunohistochemical staining on formalin-fixed paraffin-embedded tissue sections, the suggested use of this reagent is 5.0 - 10 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
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} .
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
Product Citations	<ol style="list-style-type: none"> Miyamoto DT, <i>et al.</i> 2018. <i>Cancer Discov.</i> 0.533333333. PubMed Weinhage T, <i>et al.</i> 2020. <i>J Immunol.</i> 205:56. PubMed Taft J, <i>et al.</i> 2021. <i>Cell.</i> 184(17):4447-4463.e20. PubMed Stras SF, <i>et al.</i> 2020. <i>Developmental Cell.</i> 51(3):357-373.e5.. PubMed Arnold IC, <i>et al.</i> 2018. <i>J Exp Med.</i> 215:2055. PubMed Arunachalam PS, <i>et al.</i> 2021. <i>Nature.</i> 596:410. PubMed Schimek V, <i>et al.</i> 2022. <i>Cell Death Dis.</i> 13:113. PubMed Cao Q, <i>et al.</i> 2018. <i>Am J Physiol Renal Physiol.</i> 314:F561. PubMed Mann ER, <i>et al.</i> 2020. <i>Sci Immunol.</i> :5. PubMed

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RRID AB_314494 (BioLegend Cat. No. 305102)

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

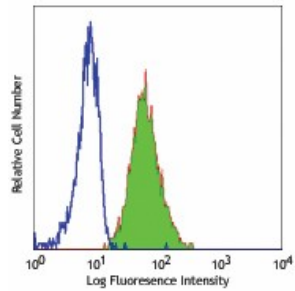
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

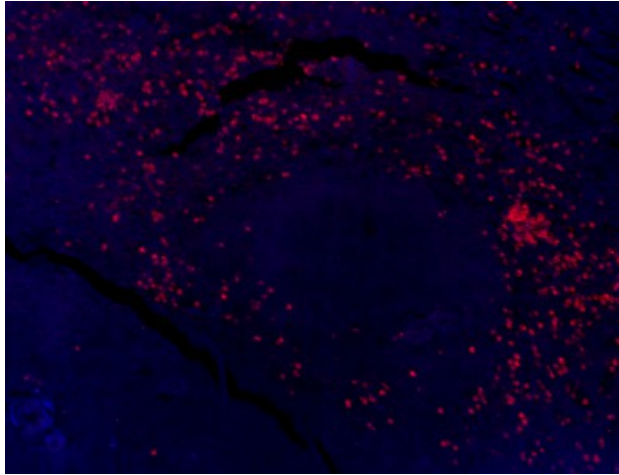
Other Formats

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 stained with purified G10F5, followed by anti-mouse Igs FITC



Human paraffin-embedded spleen tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Tris-Buffered Saline 1X with Tween 20 (50 mM, pH 7.6, Cat. No. 925501) at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL of purified anti-human CD66b (clone G10F5) (red) at 4°C overnight. On the next day, tissue was incubated with Alexa Fluor® 647 anti-mouse IgM antibody (clone RMM-1) antibody (red) for an hour. Nuclei were counterstained with DAPI (blue). The image was captured with a 10X objective.

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