

Alexa Fluor[®] 594 anti-human CD66b Antibody

Catalog# / Size	305123 / 25 µg 305124 / 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 and conjugated with Alexa Fluor [®] 594 under optimal conditions.
Concentration	0.5 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	IHC-P - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10.0 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
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. PubMedMeinke P, <i>et al.</i> 2015. <i>Neuroimmunol Discord.</i> 25:127. PubMedRadtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) PubMedRadtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed
Product Citations	<ol style="list-style-type: none">Slingsby MHL, <i>et al.</i> 2021. <i>Haematologica.</i> Online ahead of print. PubMed

RRID AB_2728242 (BioLegend Cat. No. 305123)
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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

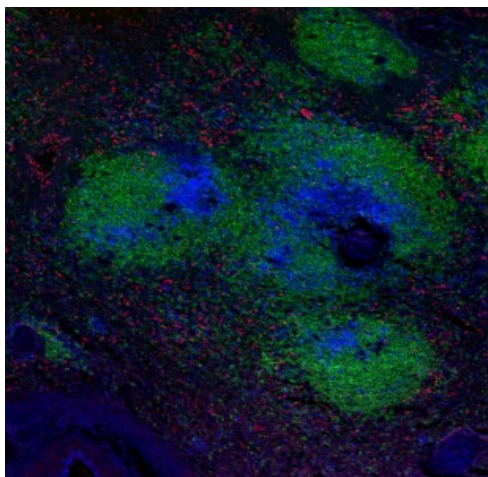
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

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 paraffin-embedded spleen tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Citrate-Buffered Saline 1X (pH 6.0) at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 (Cat. No. 925501) twice for 5 minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/ml of Alexa Fluor® 647 anti-CD45RA (clone HI100) antibody (green), Alexa Fluor® 594 anti-CD66b (clone G10F5) antibody (red) and Brilliant Violet 421™ anti-CD45RO antibody (blue) overnight at 4°C. The image was scanned with a 10X objective and stitched with MetaMorph® software.

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