

## Alexa Fluor® 700 anti-human CD66b Antibody

<b>Catalog# / Size</b>	305113 / 25 tests 305114 / 100 tests
<b>Clone</b>	G10F5
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	VI MA81
<b>Other Names</b>	CD67, CGM6, NCA-95, CEACAM8
<b>Isotype</b>	Mouse IgM, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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.</p> <p>* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen, formalin-fixed paraffin-embedded tissue sections, and spatial biology (IBEX) <sup>5,6</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.</li> <li>Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.</li> <li>Norling LV, <i>et al.</i> 2012. <i>Arterioscler Thromb Vasc Biol.</i> 32:1970. <a href="#">PubMed</a></li> <li>Meinke P, <i>et al.</i> 2015. <i>Neuroimmunol Discord.</i> 25:127. <a href="#">PubMed</a></li> <li>Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. (SB) <a href="#">PubMed</a></li> <li>Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

## Product Citations

1. Cruz MA, *et al.* 2022. *Nat Nanotechnol.* 17:1004. [PubMed](#)
2. Giamarellos-Bourboulis EJ, *et al.* 2020. *Cell.* 183(2):315-323.e9. [PubMed](#)
3. Moorlag SJCFM, *et al.* 2020. *Cell Rep.* 33:108387. [PubMed](#)
4. Janela B, *et al.* 2019. *Immunity.* 50:1069. [PubMed](#)
5. Brunetta E, *et al.* 2020. *Nat Immunol.* . [PubMed](#)
6. Buters TP, *et al.* 2021. *Br J Clin Pharmacol.* Online ahead of print. [PubMed](#)
7. Foote JR, *et al.* 2019. *Front Immunol.* 10:188. [PubMed](#)
8. Johnson RK, *et al.* 2022. *Sci Rep.* 12:19920. [PubMed](#)

## RRID

AB\_2566037 (BioLegend Cat. No. 305113)  
AB\_2566038 (BioLegend Cat. No. 305114)

## Antigen Details

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<b>Structure</b>	Ig superfamily, CEA antigen group, GPI-linked glycoprotein, 95-100 kD
<b>Distribution</b>	Granulocytes
<b>Function</b>	Cell adhesion, neutrophil activation
<b>Ligand/Receptor</b>	CD66c
<b>Cell Type</b>	Granulocytes, Neutrophils
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">1088</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

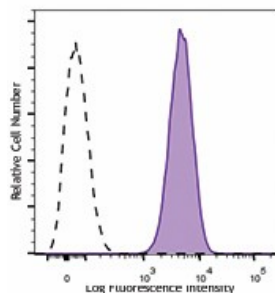
## Other Formats

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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

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Human peripheral blood granulocytes were stained with CD66b (clone G10F5) Alexa Fluor® 700 (filled histogram).

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