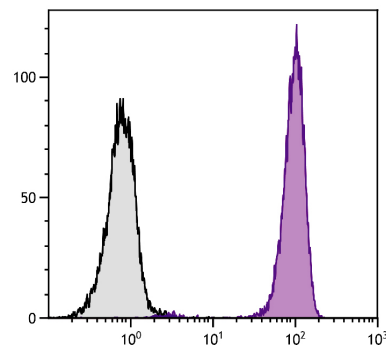




## Mouse Anti-Human CD16

Cat. No.	Format	Size
9571-01	Purified (UNLB)	0.1 mg
9571-02	Fluorescein (FITC)	100 tests
9571-08	Biotin (BIOT)	100 tests
9571-09	R-phycoerythrin (PE)	100 tests
9571-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9571-26	Pacific Blue™ (PACBLU)	100 tests
9571-27	Alexa Fluor® 700 (AF700)	100 tests
9571-30	Alexa Fluor® 488 (AF488)	100 tests
9571-31	Alexa Fluor® 647 (AF647)	100 tests



Human peripheral blood granulocytes were stained with Mouse Anti-Human CD16-PACBLU (SB Cat. No. 9571-26).

### Overview

<b>Clone</b>	3G8
<b>Isotype</b>	Mouse (CD2F1) IgG <sub>1κ</sub>
<b>Immunogen</b>	Human polymorphonuclear leukocytes
<b>Specificity</b>	Human/Chimpanzee CD16; Mr 50-65 kDa
<b>Alternate Name(s)</b>	FC <sub>γ</sub> RIII, low affinity Fc receptor
<b>Workshop</b>	IV N409; V MR5

### Description

CD16, a member of the immunoglobulin superfamily, is a 50-65 kDa glycoprotein found as both a transmembrane and GPI-linked form. The transmembrane form of CD16 is expressed on NK cells, granulocytes, macrophages, and mast cells but not on eosinophils. The GPI-anchored type of CD16 is found only on neutrophils. CD16 is involved in NK activation and signal transduction.

### Applications

FC – Quality tested <sup>2,3,5-7</sup>  
 IHC-FS – Reported in literature <sup>4</sup>  
 ICC – Reported in literature <sup>3</sup>  
 IP – Reported in literature <sup>1,2</sup>  
 WB-NR – Reported in literature <sup>3</sup>  
 Stim – Reported in literature <sup>5</sup>  
 Costim – Reported in literature <sup>5</sup>  
 Block – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 μg/10 <sup>6</sup> cells
	FITC, BIOT, PE, AF488, AF647, AF700, and PACBLU conjugates	10 μL/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	

**Other Applications** Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

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## Handling and Storage

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- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC), Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific SDS.

## References

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7. Reeves RK, Evans TI, Fultz PN, Johnson RP. Potential confusion of contaminating CD16<sup>+</sup> myeloid DCs with anergic CD16<sup>+</sup> NK cells in chimpanzees. Eur J Immunol. 2011;41:1070-4. (FC, Chimpanzee Reactivity)

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