

11-646-C100

## Monoclonal Antibody to CD16 Purified Antibody (0.1 mg)

<b>Clone:</b>	3G8
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody 3G8 recognizes CD16, a low affinity receptor for aggregated IgG (Fcγ <sub>3</sub> antigen). CD16 exists in two different isoforms: CD16a (Fcγ <sub>3</sub> A; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b (Fcγ <sub>3</sub> B; 48 kDa; mainly expressed on neutrophils). HLDA V; WS Code NK80
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human neutrophils
<b>Species Reactivity:</b>	Human, Non-Human Primates
<b>Application:</b>	Flow Cytometry Recommended dilution: 6 µg/ml Immunoprecipitation Immunohistochemistry (frozen sections) Application note: acetone fixation Functional Application In vitro Stimulation of NK cell proliferation, blocking of IgG binding and phagocytosis, inhibition of cytotoxic activity, in vivo NK cell depletion
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD16 (Fcγ <sub>3</sub> ) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human Fcγ <sub>3</sub> is expressed in two forms &#8211; Fcγ <sub>3</sub> -A and -B. Fcγ <sub>3</sub> -A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with Fcε <sub>1</sub> -γ subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell Fcγ <sub>3</sub> -A is associated, moreover, with Fcε <sub>1</sub> -β subunit. Besides IgG, Fcγ <sub>3</sub> -A can be triggered also by oligomeric IgE. Fcγ <sub>3</sub> -B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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- \*And many other.

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