

Product datasheet

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ARG42244 anti-CD16 antibody [3G8] (low endotoxin)

Package: 100 μg Store at: -20°C

Summary

Product Description Azide free and low endotoxin Mouse Monoclonal antibody [3G8] recognizes CD16

Tested Reactivity Hu, NHuPrm

Tested Application FACS, FuncSt, IHC-Fr, IP

Specificity The mouse monoclonal antibody 3G8 recognizes an extracellular epitope of CD16, a low affinity

receptor for aggregated IgG (FcgammaRIII antigen). CD16 exists in two different isoforms: CD16a (FcgammaRIIIA; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b

(FcgammaRIIIB; 48 kDa; mainly expressed on neutrophils).

Host Mouse

Clonality Monoclonal

Clone 3G8

Isotype IgG1, kappa

Target Name CD16

Species Human

Immunogen Human neutrophils.

Conjugation Un-conjugated

Alternate Names FCRIIIA; FcRIIIa; CD antigen CD16a; Fc-gamma RIII-alpha; FCR-10; FcR-10; FCRIII; FCG3; Low affinity

immunoglobulin gamma Fc region receptor III-A; FCGRIII; CD16; Fc-gamma RIIIa; IgG Fc receptor III-2;

IMD20; CD16A; IGFR3; CD16a antigen; FCGR3; FcRIII; Fc-gamma RIII

Application Instructions

Application table	Application	Dilution
	FACS	6 μg/ml
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Purification Note	$0.2~\mu m$ filter sterilized. Endotoxin level is less than $0.01~EU/\mu g$ of the protein.
Buffer	PBS

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Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

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

Bioinformation

Gene Symbol FCGR3A

Gene Full Name Fc fragment of IgG, low affinity Illa, receptor (CD16a)

Background This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal

of antigen-antibody complexes from the circulation, as well as other other antibody-dependent responses. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on

chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Jul 2008]

Function Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG.

Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses,

such as phagocytosis. [UniProt]

Calculated Mw 29 kDa

PTM Glycosylated. Contains high mannose- and complex-type oligosaccharides. Glycosylation at Asn-180 is

mandatory for high affinity binding to the Fc and for discrimination between fucosylated and

afucosylated IgG glycoforms.

The soluble form is produced by a proteolytic cleavage. [UniProt]

Cell ular Localization Cell membrane; Single-pass type I membrane protein. Secreted. Note=Exists also as a soluble receptor.

[UniProt]