

Product datasheet

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ARG23942 anti-CD16 antibody [AT154-2]

Package: 100 μg Store at: -20°C

Summary

Isotype

Product Description Rat Monoclonal antibody [AT154-2] recognizes CD16

Tested Reactivity Ms
Predict Reactivity Hu

Tested Application FACS, IHC-Fr

Host Rat

Clone Monoclonal
AT154-2

Target Name CD16
Species Human

Immunogen HEK293F cells expressing CD16 and gamma chain.

IgG2b

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	1:10
	IHC-Fr	1:100 - 1:1000
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.

Buffer Tris buffered saline and 0.09% Sodium azide.

Preservative 0.09% Sodium azide

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.

Bioinformation

Gene Symbol FCGR3A

Gene Full Name Fc fragment of IgG, low affinity IIIa, 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]

Highlight Related products:

CD16 antibodies; CD16 ELISA Kits; CD16 Duos / Panels; Anti-Rat IgG secondary antibodies;

Related news:

Tumor-Infiltrating Lymphocytes (TILs)

Research Area Developmental Biology antibody; Immune System antibody; General Lymphocyte Marker Study

antibody; Natural killer cells antibody

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

[UniProt]