



Anti-FCGR3A monoclonal antibody, clone DJ130c (CABT-45641MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Human CD16 antibody, clone DJ130c recognizes human CD16, also known as Low affinity immunoglobulin gamma Fc region receptor III-A or Fc-gamma RIIIa. CD16a is a 254 amino acid ~50-65kDa single pass type 1 transmembrane glycoprotein bearing two Ig-like C2 type domains. CD16 exists as a transmembranous form (Fc gammaRIIIA, or CD16A) and a glycosyl phosphatidylinositol (GPI) anchored form, Fc gammaRIIIB, or CD16B. CD16A is expressed by NK cells, some T cells, and macrophages, whereas CD16B is primarily expressed by granulocytes. In addition, CD16B exists as two allelic variants NA1 and NA2 . DJ130c recognizes all polymorphonuclear cells irrespective of their NA phenotype. Mouse anti Human CD16 antibody, clone DJ130c recognizes an epitope in the first membrane- distal domain of CD16, recognizes both CD16a and CD16b and has been demonstrated to cross-react with CD16 from rhesus macaques, *Macaca mulatta*. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	FCGR3A
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Macaque monkey
Clone	DJ130c
Conjugate	Unconjugated
Applications	IHC-Fr; FC; IHC-P
Format	Purified IgG - liquid
Size	200 µg

Preservative	See individual product datasheet
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	FCGR3A Fc fragment of IgG, low affinity IIIa, receptor (CD16a) [Homo sapiens (human)]
Official Symbol	FCGR3A
Synonyms	FCGR3A; Fc fragment of IgG, low affinity IIIa, receptor (CD16a); CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA; low affinity immunoglobulin gamma Fc region receptor III-A; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RII
Entrez Gene ID	2214
Protein Refseq	NP_000560
UniProt ID	O75015
Chromosome Location	1q23
Pathway	Adaptive Immune System; FCGR activation; Fc gamma R-mediated phagocytosis; Fcgamma receptor (FCGR) dependent phagocytosis; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell; Innate Immune System; Leishmaniasis;
Function	IgG binding;