

36-2284: Anti-CD16 / FcγReceptor III Monoclonal Antibody(Clone: HO-80)

Clonality :	Monoclonal
Clone Name :	HO-80
Application :	Functional Assay,FACS,IF
Reactivity :	Human
Gene :	FCGR3A
Gene ID :	2214
Uniprot ID :	P08637
Alternative Name :	FcR111a; FcR-10; FcR111; FCGR111; FcR-10; Fc fragment of IgG, low affinity 111a, receptor for (CD16); neutrophil-specific antigen NA; CD16a; low affinity immunoglobulin gamma Fc region receptor 111-A; Fc-gamma R111a; immunoglobulin G Fc receptor 111; Fc-gamma R111-alpha; Fc-gamma receptor 111b (CD16); CD16a antigen; Fc-gamma receptor 111-2 (CD 16); FCGR3; Fc gamma receptor 111-A; FCG3; low affinity 111, receptor for (CD16); Fc-gamma R111; IGFR3FcgammaR111A; CD16FCR111A; FCR111; Fc fragment of IgG, low affinity 111a, receptor (CD16a)
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	PBL's from a NK-leukemia patient

Description

It recognizes CD16 (Fcγ₁R111), the low-affinity receptor for IgG with an apparent molecular weight of 50-80kDa. Two similar genes represent CD16, CD16A (Fcγ₁R111A), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (Fcγ₁R111B), which exist as a monomeric GPI-anchored form in neutrophils. Furthermore, there are two known polymorphisms of CD16B, NA-1 and NA-2. Individuals homozygous for NA-2 show a lower phagocytic capacity compared with NA-1. CD16 binds IgG in the form of immune complexes and shows preferential binding of IgG1 and IgG3 isotypes and minimal binding of IgG2 and IgG4. Upon IgG binding, both CD16 isoforms initiate signal transduction cascades that lead to a variety of responses including antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Functional Studies (Order Ab without BSA & Azide); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);