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36-2283: Anti-CD16 / FcγReceptor III Monoclonal Antibody(Clone: HuNK2)

Clonality :	Monoclonal
Clone Name :	HuNK2
Application :	Functional Assay,FACS,IF
Reactivity :	Human
Gene :	FCGR3A
Gene ID :	2214
Uniprot ID :	P08637
Alternative Name :	FcRIIIa; FCR-10; FcRIII; FCGRIII; FcR-10; Fc fragment of IgG, low affinity IIIa, receptor for (CD16); neutrophil-specific antigen NA; CD16a; low affinity immunoglobulin gamma Fc region receptor III-A; Fc-gamma RIIIa; immunoglobulin G Fc receptor III; Fc-gamma RIII-alpha; Fc-gamma receptor IIIb (CD16); CD16a antigen; Fc-gamma receptor III-2 (CD 16); FCGR3; Fc gamma receptor III-A; FCG3; low affinity III, receptor for (CD16); Fc-gamma RIII; IGFR3FcgammaRIIIA; CD16FCRIIIA; FCRIII; Fc fragment of IgG, low affinity IIIa, receptor (CD16a)
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Human peripheral blood lymphocytes from a NK-leukemia patient.

Description

It recognizes CD16 (FcgammaRIII), the low-affinity receptor for IgG with an apparent molecular weight of 50-80kDa. Two similar genes represent CD16, CD16A (FcgammaRIIIA), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (FcgammaRIIIB), 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);

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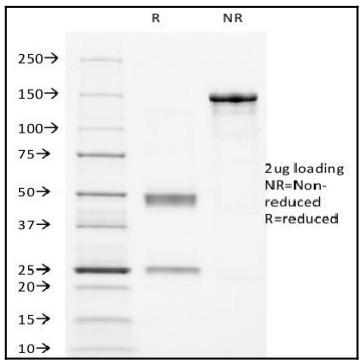


Fig. 1: SDS-PAGE Analysis Purified CD16 Mouse Monoclonal Antibody (HuNK2). Confirmation of Purity and Integrity of Antibody.

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