CD16 Antibody [clone HO-80] (V2500)

Catalog No.	Formulation	Size
V2500-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2500-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2500SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (1)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	HO-80
Purity	Protein G affinity chromatography
UniProt	P08637
Localization	Cell surface
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 0.5-1ug/ml
Limitations	This CD16 antibody is available for research use only.



Description

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

Researchers studying Fc-mediated immune signaling, natural killer cell biology, and antibody-dependent cellular cytotoxicity may also benefit from the CD16 Antibody / Fc Gamma Receptor III Immune Marker page featuring immunohistochemistry, immunofluorescence, and flow cytometry validation data for endogenous FCGR3 detection.

Application Notes

Optimal dilution of the CD16 antibody should be determined by the researcher.

Immunogen

PBL s from a NK-leukemia patient were used as the immunogen for the CD16 antibody.

Storage

Store the CD16 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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