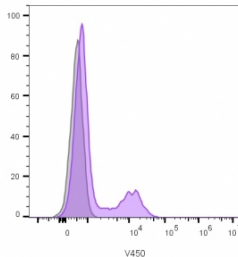


CD16 Antibody [clone C16/1045] (V8858)

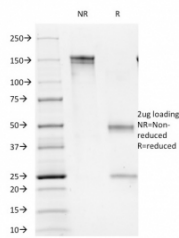
Catalog No.	Formulation	Size
V8858-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8858-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8858SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	C16/1045
Purity	Protein A/G affinity
UniProt	P08637
Localization	Cell Surface
Applications	Flow Cytometry : 0.5-1ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This CD16 antibody is available for research use only.



FACS staining of lymphocyte-gated human PBM cells with CD16 antibody (violet, clone C16/1045), and unstained cells (gray).



SDS-PAGE analysis of purified, BSA-free CD16 antibody (clone C16/1045) as confirmation of integrity and purity.

Description

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

Application Notes

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

Immunogen

Recombinant human CD16 protein was used as the immunogen for the CD16 antibody.

Storage

Aliquot the CD16 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.