

For Research Use Only

CD16 Monoclonal antibody

Catalog Number: 66779-1-Ig **2 Publications**



Basic Information

Catalog Number: 66779-1-Ig	GenBank Accession Number: BC017865	Purification Method: Protein A purification
Size: 150ul , Concentration: 1002 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2214	CloneNo.: 1E12E11
Source: Mouse	ENSEMBL Gene ID: ENSG00000203747	Recommended Dilutions: IHC 1:2500-1:10000 IF-P 1:200-1:800
Isotype: IgG1	UNIPROT ID: P08637	
Immunogen Catalog Number: AG9787	Full Name: Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	
	Calculated MW: 254 aa, 29 kDa	

Applications

Tested Applications: IHC, IF-P, ELISA	Positive Controls:
Cited Applications: IHC, IF	IHC : human liver tissue, human tonsillitis tissue
Species Specificity: human	IF-P : human tonsillitis tissue,
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CD16 is a 50-70-kDa low affinity Fc receptor found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16 mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. CD16 has been identified as Fc receptors FcγRIIIa (CD16a) and FcγRIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and the FCGR3B.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanping Li	36213822	J Oncol	IF
Yunlong He	39076970	Front Immunol	IHC,IF

Storage

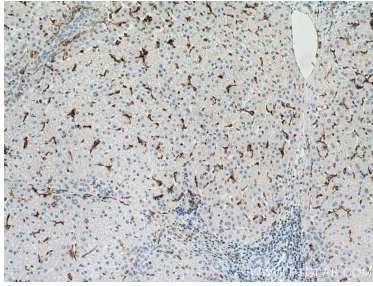
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

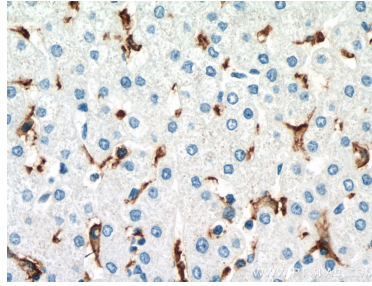
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

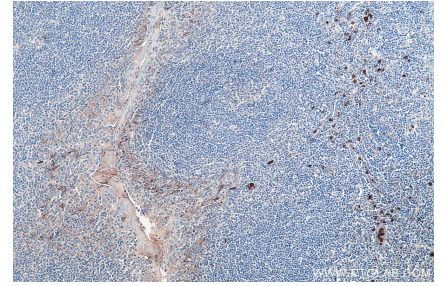
Selected Validation Data



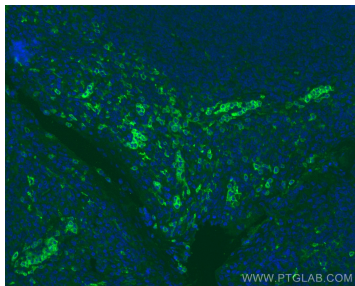
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using CD16 antibody (66779-1-Ig, Clone: 1E12E11) at dilution of 1:400 and Coralite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).