

For Research Use Only

# CD16 Monoclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 66779-1-Ig	<b>GenBank Accession Number:</b> BC017865	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1002 ug/ml	<b>GeneID (NCBI):</b> 2214	<b>CloneNo.:</b> 1E12E11
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000203747	<b>Recommended Dilutions:</b> IHC 1:2500-1:10000 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P08637	
<b>Immunogen Catalog Number:</b> AG9787	<b>Full Name:</b> Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	
	<b>Calculated MW:</b> 254 aa, 29 kDa	

## Applications

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

## 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 Fc  $\gamma$  RIIa (CD16a) and Fc  $\gamma$  RIIb (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

For technical support and original validation data for this product please contact:

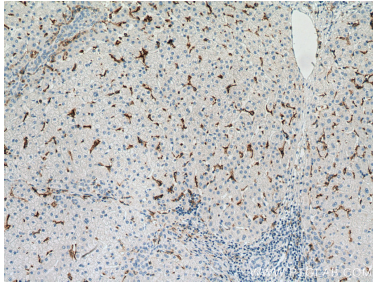
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

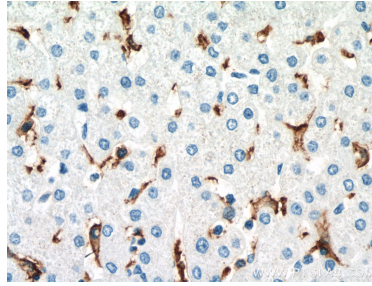
W: [ptgcn.com](http://ptgcn.com)

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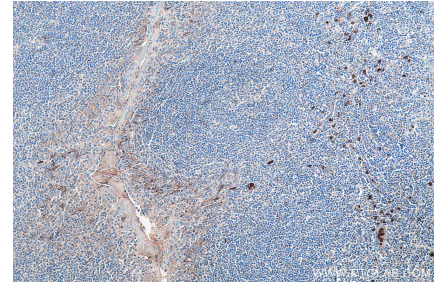
## Selected Validation Data



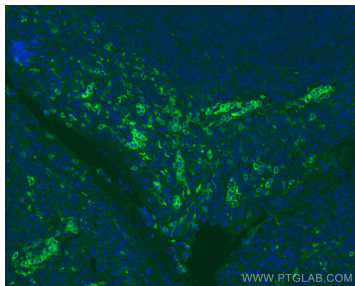
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66779-1-Ig (CD16 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).