

For Research Use Only

# FCGR3A/CD16a Polyclonal antibody

Catalog Number: 30356-1-AP



## Basic Information

<b>Catalog Number:</b> 30356-1-AP	<b>GenBank Accession Number:</b> BC036723	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2214	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000203747	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P08637	
<b>Immunogen Catalog Number:</b> AG1281	<b>Full Name:</b> Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	
	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 65-70 kDa	

## Applications

<b>Tested Applications:</b> WB, IF-P, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HL-60 cells, Jurkat cells <b>IF-P :</b> mouse spleen tissue,

## Background Information

CD16 is a low affinity Fc receptor. It has been identified as Fc receptors FcγRIIIa (CD16a) and FcγRIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and the FCGR3B. In humans, FcγRIIIa/CD16a is a type I transmembrane receptor expressed on macrophages and NK cells. FcγRIIIb/CD16b is a GPI-linked Fc-receptor highly expressed on neutrophils. The two proteins differ by only four amino acid residues in the mature proteins (PMID: 30361439). FCGR3A has a calculated molecular weight of 29 kDa, with an apparent molecular weight of 50-80 kDa due to extensive glycosylation (PMID: 30655272; PMID: 27914599). The antibody is specific for FCGR3A/CD16a.

## Storage

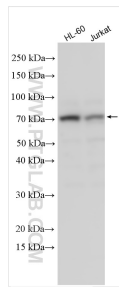
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

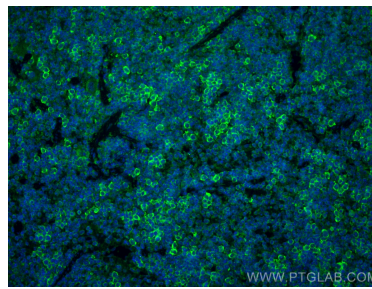
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30356-1-AP (FCGR3A/CD16a antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using FCGR3A/CD16a antibody (30356-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).