

# CD16 Polyclonal antibody

Catalog Number: 30567-1-AP

## Basic Information

**Catalog Number:**

30567-1-AP

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

EG31662

**GenBank Accession Number:**

BC017865

**GeneID (NCBI):**

2214

**ENSEMBL Gene ID:**

ENSG00000203747

**UNIPROT ID:**

P08637

**Full Name:**

Fc fragment of IgG, low affinity IIIa, receptor (CD16a)

**Calculated MW:**

254 aa, 29 kDa

**Observed MW:**

50-70 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB: 1:2000-1:16000

IHC: 1:200-1:800

IF-P: 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF-P, ELISA

**Species Specificity:**

human

**Note-IHC: suggested antigen retrieval with *TE buffer pH 9.0*; (\*) Alternatively, antigen retrieval may be performed with *citrate buffer pH 6.0***

**Positive Controls:**

WB : human peripheral blood leukocyte,

IHC : human tonsillitis tissue,

IF-P : human tonsillitis tissue,

## Background Information

CD16 is a low affinity Fc receptor. It 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. In humans, Fc $\gamma$  RIIa/CD16a is a type I transmembrane receptor expressed on macrophages and NK cells. Fc $\gamma$  RIIb/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).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

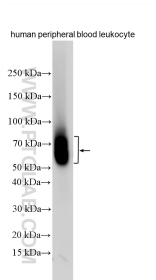
For technical support and original validation data for this product please contact:

T: 4006900926

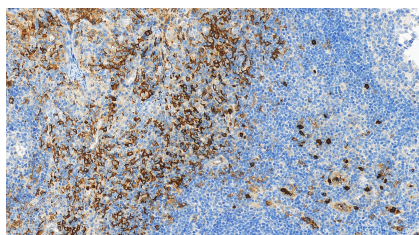
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

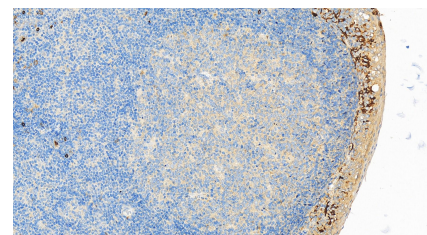
## Selected Validation Data



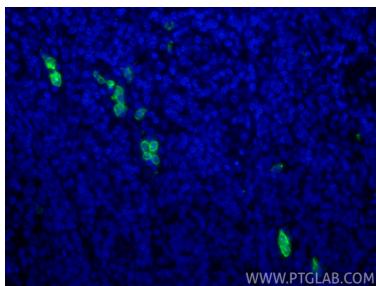
Various lysates were subjected to SDS PAGE followed by western blot with 30567-1-AP (CD16 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 30567-1-AP (CD16 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 30567-1-AP (CD16 antibody) at dilution of 1:400 (under 20x 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 (30567-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).