

# CD16 Recombinant monoclonal antibody

Catalog Number: 83110-2-RR

## Basic Information

|                                                                |                                                                              |                                                                           |
|----------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>83110-2-RR                           | <b>GenBank Accession Number:</b><br>BC017865                                 | <b>Purification Method:</b><br>Protein A purification                     |
| <b>Size:</b><br>100ul , Concentration: 1000 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>2214                                                | <b>CloneNo.:</b><br>230337A4                                              |
| <b>Source:</b><br>Rabbit                                       | <b>ENSEMBL Gene ID:</b><br>ENSG00000203747                                   | <b>Recommended Dilutions:</b><br>WB: 1:2000-1:10000<br>IHC: 1:1000-1:4000 |
| <b>Isotype:</b><br>IgG                                         | <b>UNIPROT ID:</b><br>P08637                                                 |                                                                           |
| <b>Immunogen Catalog Number:</b><br>EG31662                    | <b>Full Name:</b><br>Fc fragment of IgG, low affinity IIIa, receptor (CD16a) |                                                                           |
|                                                                | <b>Calculated MW:</b><br>254 aa, 29 kDa                                      |                                                                           |
|                                                                | <b>Observed MW:</b><br>50 kDa                                                |                                                                           |

## Applications

|                                                                                                                                                      |                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IHC, ELISA                                                                                                        | <b>Positive Controls:</b>                              |
| <b>Species Specificity:</b><br>human                                                                                                                 | <b>WB :</b> human placenta tissue, Recombinant protein |
| <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> | <b>IHC :</b> human tonsillitis tissue,                 |

## 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 FCGR3B.

## Storage

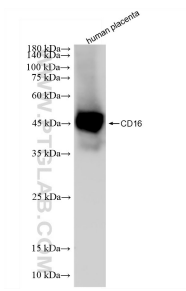
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

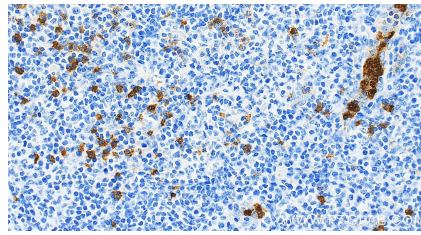
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## Selected Validation Data



human placenta tissue were subjected to SDS PAGE followed by western blot with 83110-2-RR (CD16 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 83110-2-RR (CD16 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).