

FCGR3B/CD16b Polyclonal antibody

Catalog Number: 30201-1-AP

Basic Information

Catalog Number:

30201-1-AP

Size:

900 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000570

GeneID (NCBI):

2215

UNIPROT ID:

O75015

Full Name:

Fc fragment of IgG, low affinity IIIb, receptor (CD16b)

Calculated MW:

26 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human, rat

Positive Controls:

WB: Raji cells, U-937 cells, rat spleen tissue

IF/ICC: A549 cells,

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). FCGR3B/CD16b can be detected as 26 kDa (PMID: 34108956; 36096917) and 50-75 kDa (PMID: 30655272; 18208407). The antibody is specific for FCGR3B/CD16b.

Storage

Storage:

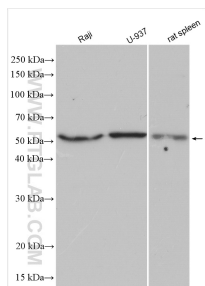
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

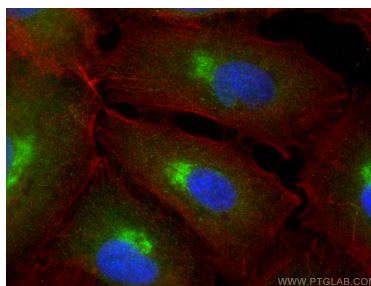
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30201-1-AP (FCGR3B/CD16b antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using FCGR3B/CD16b antibody (30201-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).