SunLong Biotech Co.,LTD
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Rabbit Anti-CD16 antibody

SL6028R

Product Name	CD16
Chinese Name	FC 段 γ 受体 3/免疫球蛋白 G Fc 段受体 III 抗体
Alias	FCG3A_HUMAN; Low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc-gamma RIII-alpha; Fc-gamma RIII; Fc-gamma RIIIa; FcRIII; FcRIIIa; FcR-10; IgG Fc receptor III-2; CD_antigen: D16a; FCGR3A; CD16A; FCG3; FCGR3; IGFR3.
Research Area	Cell biology immunology Stem cells Cell Surface Molecule Cell type markers
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human Mouse Rat
Applications	WB=1:500-1000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	27kDa
Cellular localization	The cell membrane Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human IGFR3/CD16: 131-230/254 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed PubMed

This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2020]

Product Detail

Function:
Receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.

Subunit:
Exists as a heterooligomeric receptor complex with Fc epsilon receptor I gamma subunit and / or the CD3 zeta subunit. Interacts with INPP5D/SHIP1.

Subcellular Location:
Cell membrane. Secreted. Exists also as a soluble receptor.

Tissue Specificity:
Expressed on natural killer cells, macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts.

Post-translational modifications:
Glycosylated. Contains high mannose- and complex-type oligosaccharides.
The soluble form is produced by a proteolytic cleavage. [MISCELLANEOUS]
Encoded by one of two nearly indentical genes: FCGR3A (Shown here) and FCGR3B which are expressed in a tissue-specific manner. The Phe-203 in III-A determines the transmembrane domains whereas the 'Ser-203' in III-B determines the GPI-anchoring.

Similarity:
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:
P08637

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Gene ID:
2214

Database links:

Entrez Gene: 2214 Human

Entrez Gene: 14131 Mouse

Entrez Gene: 304966 Rat

Omim: 146740 Human

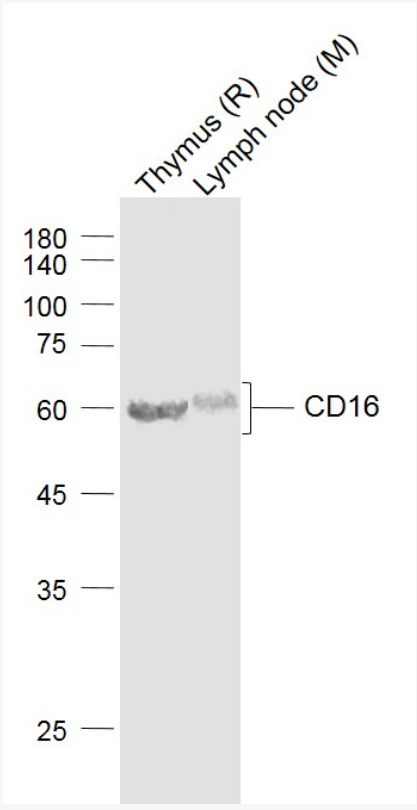
SwissProt: P08637 Human

SwissProt: P08508 Mouse

SwissProt: P27645 Rat

Unigene: 372679 Human

Product Picture



Sample:

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Lane 1: Thymus (Rat) Lysate at 40 ug

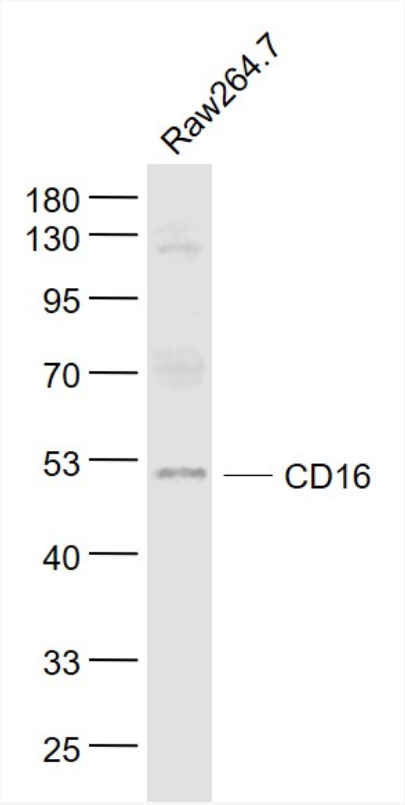
Lane 2: Lymph node (Mouse) Lysate at 40 ug

Primary: Anti-CD16 (SL6028R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 60 kD



Sample:

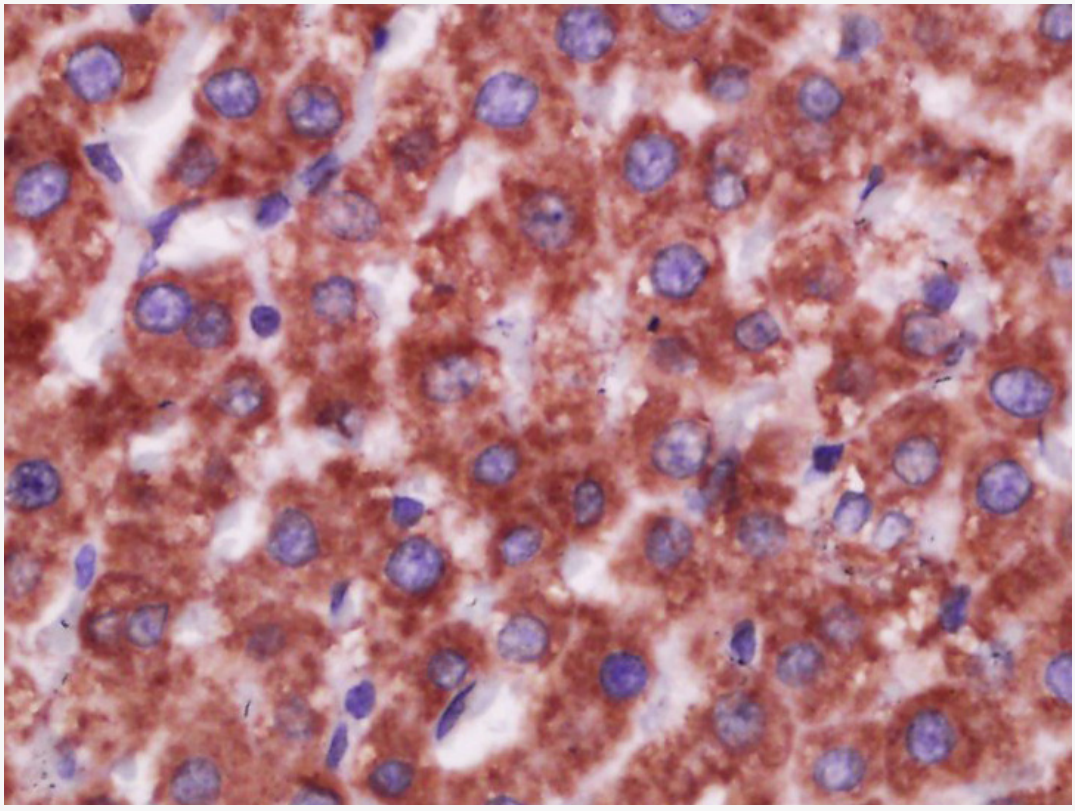
Raw264.7(Mouse) Cell Lysate at 30 ug

Primary: Anti- CD16 (SL6028R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 27 kD

Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD16) Polyclonal Antibody, Unconjugated (SL6028R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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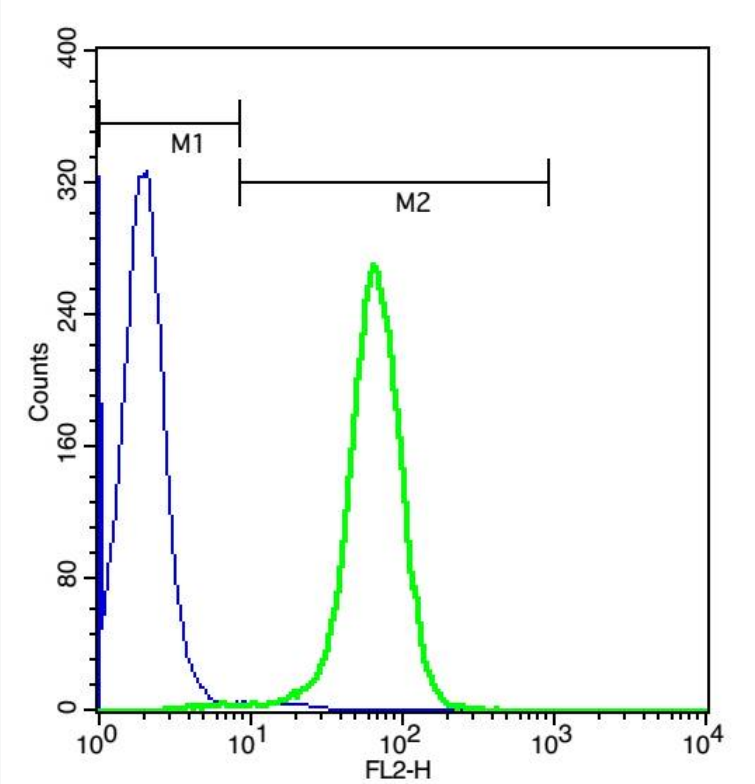

Cell: U937(4% Paraformaldehyde fixed for 10 minutes,2% BSA at 4∑blocked for 30 minutes.).

Concentration:1:100;Incubation: 40 minutes.

Flow cytometric analysis of Rabbit Anti-CD16 antibody (SL6028R)(green) compared with control in the absence of primary antibody (blue) followed by U937.

Secondary antibody: Goat Anti-rabbit IgG/PE antibody (SL0295G-PE)