



Rabbit Anti-CD21 antibody

SL3792R

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|-------------------------------|---|
| Product Name: | CD21 |
| Chinese Name: | 2型补体受体抗体 |
| Alias: | C3DR; CD 21; CD21 antigen; Complement C3d receptor; Complement component (3d/Epstein Barr virus) receptor 2; Complement component receptor 2; Complement receptor type 2; Cr 2; Cr2; EBV receptor; Epstein Barr virus receptor. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800Flow-Cyt=1μg/Test (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 111kDa |
| Cellular localization: | The cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human CD21:981-1092/1092<Cytoplasmic> |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| PubMed: | PubMed |
| Product Detail: | CD21 also known as complement receptor 2 (CR2), C3d receptor or EBV receptor is a 140 kDa protein. CD21 is a glycosylated type I transmembrane protein consisting of an extracellular face of a series of 15 or 16 CCP domains. CD21 is the receptor for complement components C3d and iC3b as well as the Epstein-Barr virus (EBV) glycoprotein gp350/220. The soluble CD21 (sCD21) was shown to efficiently trigger CD23 signalling pathways in human monocytes. By inducing release of proinflammatory cytokines and upregulating expression of molecules involved in antigen presentation, sCD21 modulates critical monocyte functions that may be relevant |

to allergic and inflammatory disorders.

Function:

Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation.

Subunit:

Interacts (via Sushi domain 1 and 2) with C3dg.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Mature B-lymphocytes, T-lymphocytes, pharyngeal epithelial cells, astrocytes and follicular dendritic cells of the spleen.

DISEASE:

Genetic variations in CR2 are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9) [MIM:610927]. Systemic lupus erythematosus (SLE) is a chronic autoimmune disease with a complex genetic basis. SLE is an inflammatory, and often febrile multisystemic disorder of connective tissue characterized principally by involvement of the skin, joints, kidneys, and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system. Defects in CR2 are the cause of immunodeficiency, common variable, type 7 (CVID7) [MIM:614699]. A primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.

Similarity:

Belongs to the receptors of complement activation (RCA) family.
Contains 15 Sushi (CCP/SCR) domains.

SWISS:

P20023

Gene ID:

1380

Database links:

[Entrez Gene: 1380](#)Human

[Entrez Gene: 12902](#)Mouse

[Oimim: 120650](#)Human

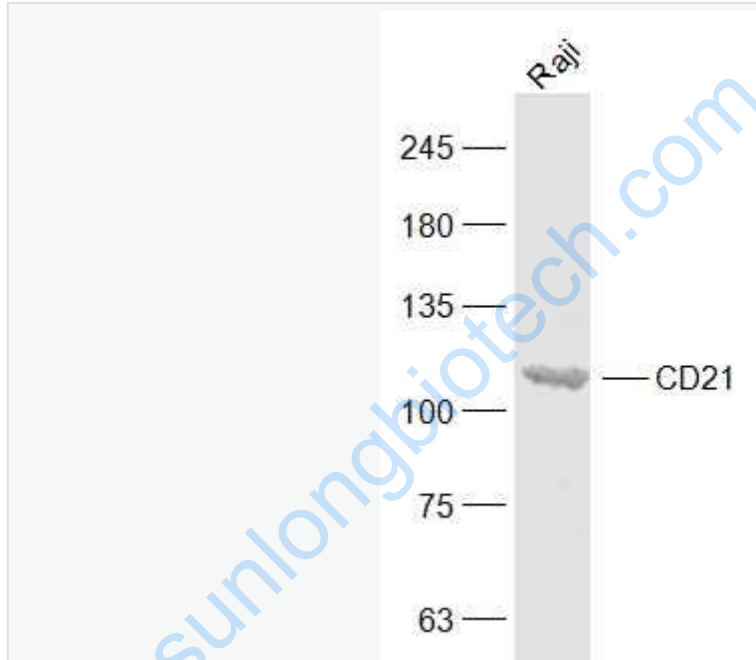
[SwissProt: P20023](#)Human

[SwissProt: P19070](#)Mouse

[Unigene: 445757](#)Human

[Unigene: 235387](#)Mouse

Picture:



Sample:

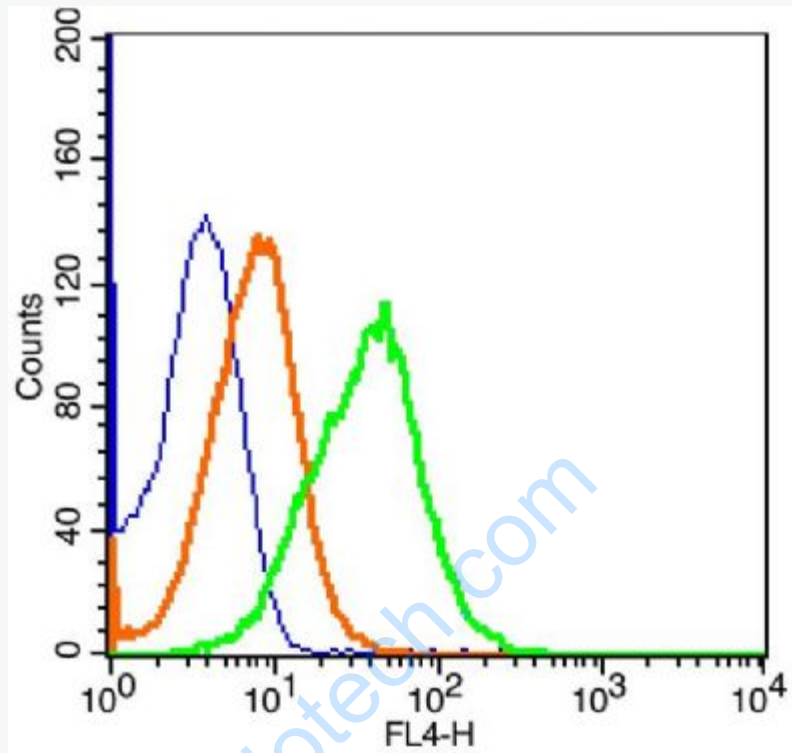
Raji(Human) Cell Lysate at 30 ug

Primary: Anti-CD21 (SL3792R) at 1/1000 dilution

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

Predicted band size: 111 kD

Observed band size: 111 kD

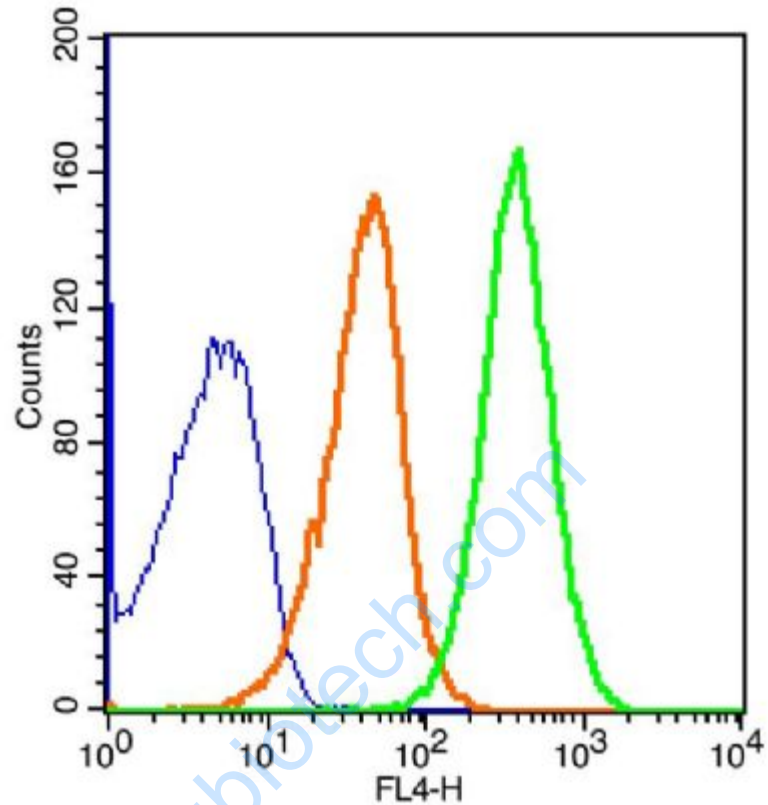


Blank control(blue): U-87MG Cells(fixed with 2% paraformaldehyde (10 min)).

Primary Antibody: Rabbit Anti-CD21/AF647 Conjugated antibody (SL3792R),

Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/AF647(orange) ,used under the same conditions.

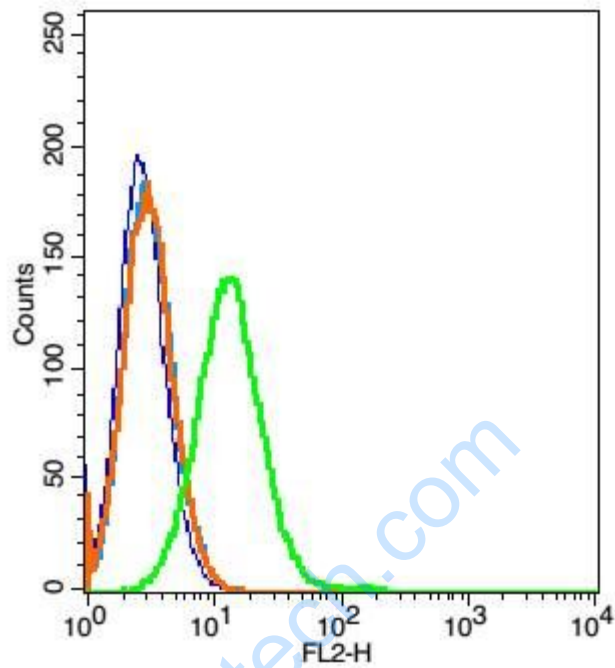


Blank control(blue): Molt-4 Cells(fixed with 2% paraformaldehyde (10 min)).

Primary Antibody: Rabbit Anti-CD21/AF647 Conjugated antibody (SL3792R),

Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/AF647(orange) ,used under the same conditions.



Blank control: Raji cells(blue).

Primary Antibody:Rabbit Anti- CD21 antibody(SL3792R), Dilution: 1 μ g in 100 μ L

1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X

PBS containing 0.5% BSA.