SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-CD55 antibody

SL10549R

Product Name	CD55
Chinese Name	衰变加速因子 CD55 抗体
Alias	CD 55; CD55 antigen; CD55 Cromer blood group system; CD55 molecule; CD55 molecule, decay accelerating factor for complement (Cromer blood group); Cd55a; Complement decay accelerating factor; Complement decay-accelerating factor; Complement decay-accelerating factor, GPI-anchored; CR; CROM; Cromer Blood Group antigen; Cromer blood group system; DAF; Daf-GPI; DAF_HUMAN; Daf1; Dcay accelerating factor for complement (CD55, Cromer blood group system); Decay accelarating factor 1, isoform CRA_a; Decay accelerating factor (GPI-form); Decay Accelerating Factor for Complement; Decay accelerating factor GPI-form; Decay accelerating factor soluble-form; GPI-DAF; TC.
Research Area	Cell Surface Molecule Cell type markers lymphocyte t-lymphocyte
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat,)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	35kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse CD55: 301-390/390
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ 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

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Product Detail

This gene encodes a glycoprotein involved in the regulation of the complement cascade. Binding of the encoded protein to complement proteins accelerates their decay, thereby disrupting the cascade and preventing damage to host cells. Antigens present on this protein constitute the Cromer blood group system (CROM). Alternative splicing results in multiple transcript variants. The predominant transcript variant encodes a membrane-bound protein, but alternatively spliced transcripts may produce soluble proteins. [provided by RefSeq, Jul 2014]

Function:
This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade.

Subunit:
Monomer (major form) and non-disulfide-linked, covalent homodimer (minor form). Binds to coxsackievirus A21, coxsackieviruses B1, B3 and B5, human enterovirus 70, human echoviruses 6, 7, 11, 12, 20 and 21 capsid proteins and acts as a receptor for these viruses.

Subcellular Location:
Isoform 1: Cell membrane; Single-pass type I membrane protein.
Isoform 2: Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity:
Expressed on the plasma membranes of all cell types that are in intimate contact with plasma complement proteins. It is also found on the surfaces of epithelial cells lining extracellular compartments, and variants of the molecule are present in body fluids and in extracellular matrix.

Post-translational modifications:
The Ser/Thr-rich domain is heavily O-glycosylated.

Similarity:
Belongs to the receptors of complement activation (RCA) family.
Contains 4 Sushi (CCP/SCR) domains.

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SWISS:
Q61476

Gene ID:
13136

Database links:

Entrez Gene: 1604 Human

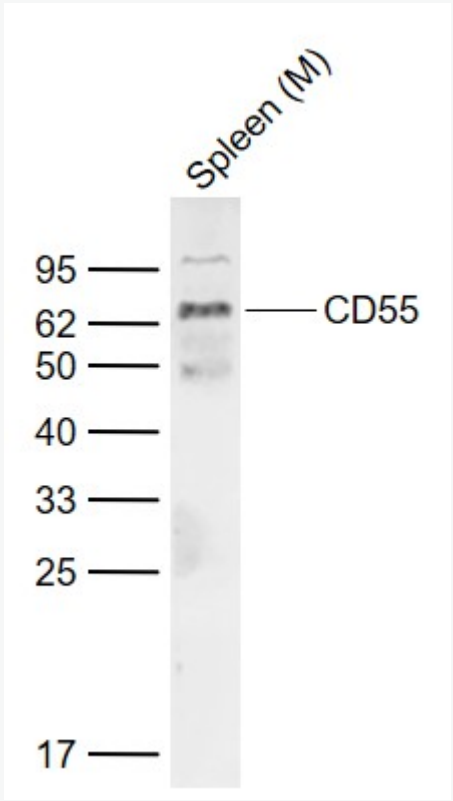
Entrez Gene: 13136 Mouse

SwissProt: P08174 Human

SwissProt: Q61475 Mouse

SwissProt: Q61476 Mouse

Product Picture



Sample:

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Lane 1: Spleen (Mouse) Lysate at 40 ug

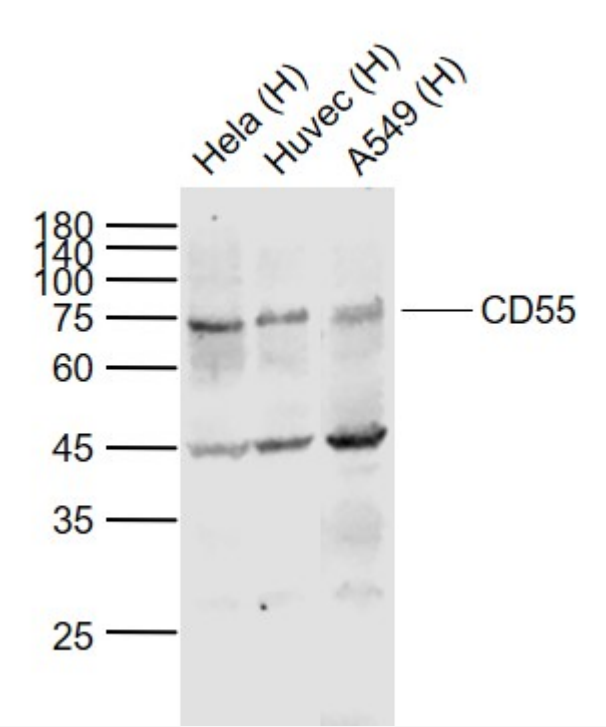
Primary:

Anti-CD55 (SL10549R) at 1/1000 dilution

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

Predicted band size: 70-75 kD

Observed band size: 70 kD



Sample:

Lane 1: Hela (Human) Cell Lysate at 30 ug

Lane 2: Huvec (Human) Cell Lysate at 30 ug

Lane 3: A549 (Human) Cell Lysate at 30 ug

Primary: Anti-CD55 (SL10549R) at 1/1000 dilution

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

Predicted band size: 70-75 kD

Observed band size: 75 kD