SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CD55 antibody

Catalog Number: SL1552R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CD55
Immunogen:	KLH conjugated synthetic peptide derived from human CD55: 301-381/381
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
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.
Reactivity:	Human,Mouse(predicted:Rat)
Predicted MW.:	35kDa
Subcellular Location:	The cell membrane
Background:	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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. **Database links:** **Entrez Gene:** 1604 Human Omim: 125240 Human **SwissProt:** P08174 Human **Unigene:** 126517 Human Decay-accelerating factor (CD55) is a glycosylphosphatidylinositol (GPI)-anchored protein on the blood The cell membrane, which inhibits activation of the complement system, participates in signal transduction, and has the function of assisting T lymphocyte activation.

[VALIDATION IMAGES]

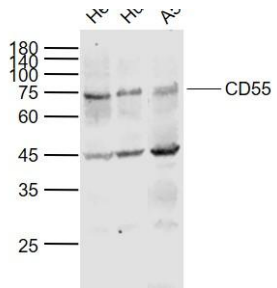


Figure 1. Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: Huvec (Human) Cell Lysate at 30 ug Lane 3: A549 (Human) Cell Lysate at 30 ug Primary: Anti-CD55 (SL1552R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kDa Observed band size: 73 kDa

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