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KO-Validated Anti-CD55 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2417

Specification

KO-Validated Anti-CD55 Rabbit Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	P08174
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 41 kDa, observed, 55-80 kDa KDa**
Gene Name	**CD55**
Aliases	**CD55; CD55 Molecule (Cromer Blood Group); CR; CROM; DAF; TC; CD55 Molecule, Decay AcceleRating Factor For Complement (Cromer Blood Group); Complement Decay-AcceleRating Factor; CD55 Antigen; Decay AcceleRating Factor For Complement (CD55, Cromer Blood Group System); Cromer Blood Group Antigen; Rh Blood Group D Antigen; CHAPLE**
Immunogen	**A synthesized peptide derived from human CD55**

KO-Validated Anti-CD55 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**1604**

Other Names
Complement decay-accelerating factor, CD55, CD55, CR, DAF

KO-Validated Anti-CD55 Rabbit Monoclonal Antibody - Protein Information

Name CD55

Synonyms CR, DAF

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 (PubMed:7525274). Inhibits complement activation by destabilizing and preventing the formation of C3 and C5 convertases, which prevents complement damage (PubMed:<a

href="http://www.uniprot.org/citations/28657829" target="_blank">28657829).

Cellular Location
[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Secreted [Isoform 5]: Secreted [Isoform 7]: Cell membrane; Lipid-anchor, GPI-anchor

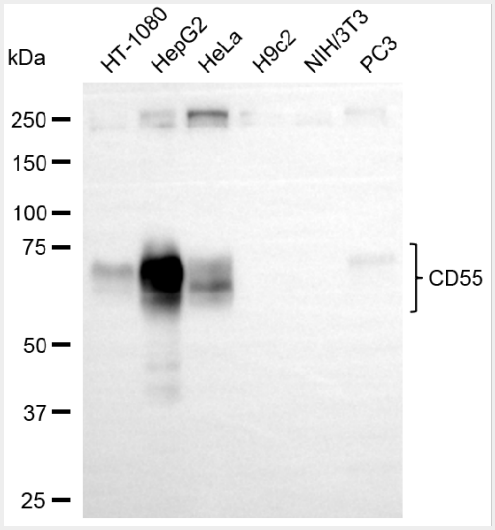
Tissue Location
Expressed on the plasma membranes of all cell types that are in intimate contact with plasma complement proteins. It is also found on the surfaces of epithelial cells lining extracellular compartments, and variants of the molecule are present in body fluids and in extracellular matrix

KO-Validated Anti-CD55 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KO-Validated Anti-CD55 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CD55 antibody (Cat#AGI2417). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CD55 antibody (Cat#AGI2417, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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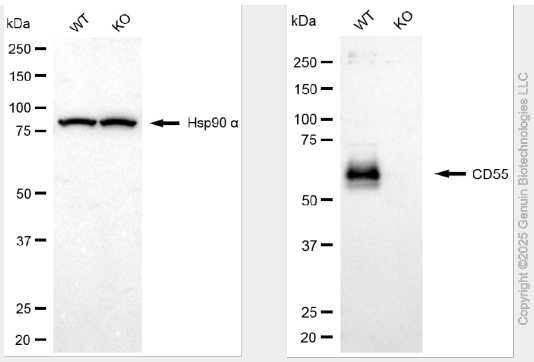

Western blotting analysis using anti-CD55 antibody (Cat#AGI2417). CD55 expression in wild type (WT) and CD55 knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CD55 antibody (Cat#AGI2417, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.