

KO-Validated Anti-CD55 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2417

Product Information

Application	WB
Primary Accession	P08174
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB435
Calculated MW	41400
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

Additional Information

Gene ID	1604
Other Names	Complement decay-accelerating factor, CD55, CD55, CR, DAF

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: 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

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