CD55 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD55, Polyclonal Antibody
Full Product Name	CD55 (CD55 Antigen, CD55 Molecule, Complement Decay Accelerating Factor, CR, Cromer Blood Group Antigen, Cromer Blood Group System, Deca
Product Gene Name	anti-CD55 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD55.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	41,400 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (207494817..207534311). Location: 1q32
OMIM	125240
3D Structure	ModBase 3D Structure for P08174
Immunogen	Full length human CD55, aa1-381 (NP_000565.1).
Immunogen Sequence	MTVARPSVPAALPLLGELPRLLLLVLLCLPAVWGDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGEKDSVICLKGSQWSDIEEFCNRSCEVP
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CD55 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD55 antibody	Western Blot (WB)
Application Notes for anti-CD55 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CD55 antibody	This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. Additional, alternatively splic
Other Notes	Small volumes of anti-CD55 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa
Searchable Terms for CD55 purchase	MBS6373156 is an antibody targeting CD55. Also known as CD55 (CD55 Antigen, CD55 Molecule, Complement Decay Accelerating Factor, CR, Crom

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD55. It may not necessarily be applicable to this product.

NCBI GI #	10835143
NCBI GeneID	1604
NCBI Accession #	NP_000565.1
UniProt Primary Accession #	P08174
UniProt Secondary Accession #	P09679; P78361; B1AP14; D3DT83; D3DT84
UniProt Related Accession #	P08174
GenBank Nucleotide #	NM_000574.2
NCBI Official Full Name	complement decay-accelerating factor isoform 1 preproprotein
NCBI Official Synonym Full Names	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
NCBI Official Symbol	CD55
NCBI Official Synonym Symbols	CR; TC; DAF; CROM
UniProt Protein Name	Complement decay-accelerating factor
Protein Family	Complement decay-accelerating factor
UniProt Gene Name	CD55
UniProt Synonym Gene Names	CR; DAF
UniProt Entry Name	DAF_HUMAN
NCBI Protein Information	complement decay-accelerating factor; CD55 antigen

UniProt Comments for CD55	CD55: 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. Belongs to the receptors of complement activation (RCA) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor; Cell surface Chromosomal Location of Human Ortholog: 1q32 Cellular Component: cell surface; integral to plasma membrane; extracellular region; plasma membrane; lipid raft Molecular Function: viral receptor activity; protein binding; lipid binding Biological Process: respiratory burst; entry of virus into host cell; elevation of cytosolic calcium ion concentration; negative regulation of complement activation; regulation of complement activation; innate immune response; regulation of lipopolysaccharide-mediated signaling pathway; complement activation, classical pathway Disease: Blood Group, Cromer System
Research Articles on CD55	**1.** Crry deletion from DAF-deficient mouse platelets cause abnormal platelet turnover, leading to compensatory increase in thrombopoiesis.
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