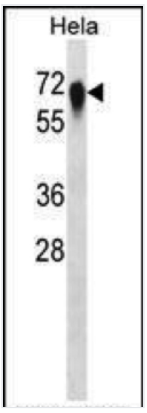
CD55 Antibody – Rabbit Polyclonal

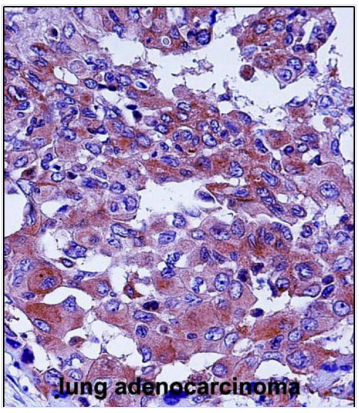
PRODUCT OVERVIEW

Product Name	CD55, Polyclonal Antibody
Full Product Name	CD55, NT (CD55, CR, DAF, Complement decay-accelerating factor, CD55) (FITC)
Product Gene Name	anti-CD55 antibody
Product Synonym Names	CD55; CR; DAF; Complement decay-accelerating factor; CD55
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human CD55.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
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	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 51-79 in the N-terminal region of human CD55, UniProt Accession #P08174.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CD55 antibody	Antibodies; Complement
Applications Tested/Suitable for anti-CD55 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-CD55 antibody	Applications are based on unconjugated antibody.

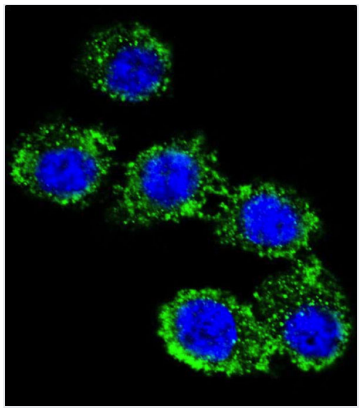
Related Product Information for anti-CD55 antibody	This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complement proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. Antigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. Additional, alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq].
Product References and Citations for anti-CD55 antibody	1. Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010). 2. Gustafsson, D.J., et al. Virology 405(2):474-482(2010). 3. Alegretti, A.P., et al. Cell. Immunol. 265(2):127-132(2010). 4. Kim, Y., et al. Ann. Clin. Lab. Sci. 40(3):226-232(2010). 5. Storry, J.R., et al. Transfusion 43(3):340-344(2003).
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 necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD55 purchase	MBS6283338 is an antibody targeting CD55. Also known as CD55, NT (CD55, CR, DAF, Complement decay-accelerating factor, CD55) (FITC). Reactive in Human. Host: Rabbit.



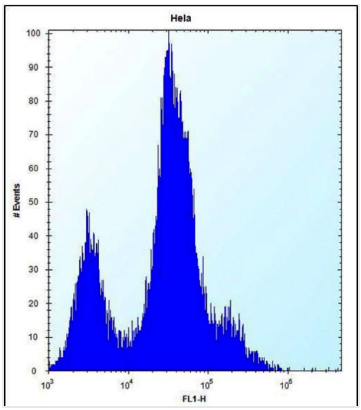
Western Blot (WB) of anti-CD55 antibody
Western Blot analysis in Hela cell line lysates (35ug/lane) usingMBS6000983. This demonstrates that MBS6000983 detected the CD55 protein (arrow).



Immunohistochemistry (IHC) of anti-CD55 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human lung adenocarcinoma using MBS6000983 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6000983 for immunohistochemistry.



Immunofluorescence (IF) of anti-CD55 antibody
Confocal immunofluorescent analysis of Hela cell using MBS6000983 followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-CD55 antibody
Flow Cytometric analysis of Hela cells (right histogram) using MBS6000983 compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
NCBI Related Accession #	NP_001108224.1
UniProt Primary Accession #	P08174
UniProt Secondary Accession #	P09679; P78361; B1AP14; D3DT83; D3DT84
UniProt Related Accession #	P08174
GenBank Nucleotide #	NM_000574.3
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
NCBI Summary for CD55	This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complement proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. Antigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. Additional, alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
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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