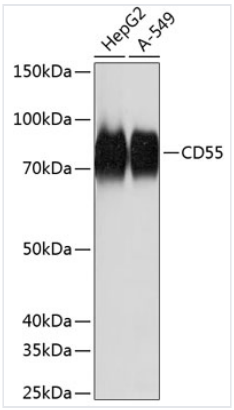
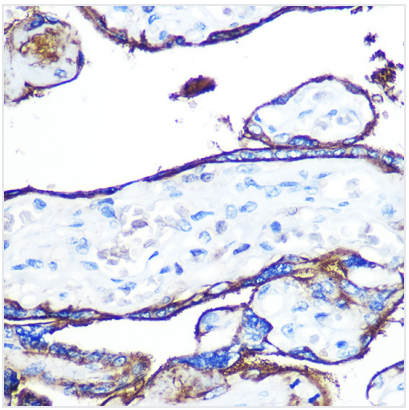
CD55 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CD55, Monoclonal Antibody
Full Product Name	CD55 Rabbit mAb
Product Gene Name	anti-CD55 antibody
Product Synonym Names	CR; TC; DAF; CROM; CHAPLE; CD55
Immunogen Sequence	EGRTSFPEDT VITYKCEESF VKIPGEKDSV ICLKGSQWSD IEEFCNRSCE VPTRLNSASL KQPYITQNYF PVGTVVEYEC RPGYRREPSL SPKLTCLQNL K
Clonality	Monoclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 41kDa Observed MW: 78kDa
OMIM	125240
3D Structure	ModBase 3D Structure for P08174
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 50-150 of human CD55 (P08174).
Product Categories/Family for anti-CD55 antibody	Immunology Inflammation; CDs; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD55 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), ELISA (EIA)
Application Notes for anti-CD55 antibody	WB: 1:500-1:2000 IHC-P: 1:50-1:200 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-CD55 antibody	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.
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	MBS9147079 is an antibody targeting CD55. Also known as CD55 Rabbit mAb. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CD55 antibody
Western blot analysis of various lysates using CD55 Rabbit mAb (MBS9147079) at 1?1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3s.



Immunohistochemistry (IHC) of anti-CD55 antibody
Immunohistochemistry analysis of paraffin-embedded Human placenta using CD55 Rabbit mAb (MBS9147079) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

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_000574.3
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

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
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Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/cd55/9147079