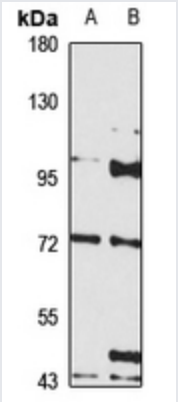
CD108 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD108, Polyclonal Antibody
Full Product Name	Anti-CD108 Antibody
Product Gene Name	anti-CD108 antibody
Product Synonym Gene Name	SEMA7A
Product Synonym Names	CD108; SEMAL; Semaphorin-7A; CDw108; JMH blood group antigen; John-Milton-Hargen human blood group Ag; Semaphorin-K1; Sema K1; Semaphorin-L; Sema L; CD108
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of CD108 protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	74,824 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (74701630..74726299, complement). Location: 15q22.3-q23
OMIM	607961
3D Structure	ModBase 3D Structure for O75326
Immunogen	Recombinant fusion protein of human CD108. The exact sequence is proprietary.
Applications Tested/Suitable for anti-CD108 antibody	Western Blot (WB)
Application Notes for anti-CD108 antibody	WB: 1:500-1:2000
Related Product Information for anti-CD108 antibody	MBS8308052 is an antibody targeting CD108. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to CD108
Other Notes	Small volumes of anti-CD108 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.



Western Blot (WB) of anti-CD108 antibody
Western blot analysis of CD108 expression in HT29 (A), Raji (B) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD108. It may not necessarily be applicable to this product.

NCBI GI #	225637520
NCBI GeneID	8482
NCBI Accession #	NP_001139501.1
UniProt Primary Accession #	O75326
UniProt Secondary Accession #	Q1XE81; Q1XE82; Q1XE83; Q1XE84; Q3MIY5; B4DDP7; F5H1S0
UniProt Related Accession #	O75326
GenBank Nucleotide #	NM_001146029.1
NCBI Official Full Name	semaphorin-7A isoform 2 preproprotein
NCBI Official Synonym Full Names	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)
NCBI Official Symbol	SEMA7A
NCBI Official Synonym Symbols	JMH; CD108; SEMAL; CDw108; SEMAK1; H-Sema-L; H-SEMA-K1
UniProt Protein Name	Semaphorin-7A
UniProt Synonym Protein Names	CDw108; JMH blood group antigen; John-Milton-Hargen human blood group Ag; Semaphorin-K1; Sema K1; Semaphorin-L
Protein Family	Semaphorin
UniProt Gene Name	SEMA7A
UniProt Synonym Gene Names	CD108; SEMAL; Sema K1; Sema L
UniProt Entry Name	SEM7A_HUMAN
NCBI Protein Information	semaphorin-7A; sema L; sema K1; semaphorin L; semaphorin-L; semaphorin K1; semaphorin-K1; JMH blood group antigen; John Milton Hagen blood group H-Sema K1; john-Milton-Hargen human blood group Ag; sema domain, immunoglobulin domain (Ig), and GPI membrane
NCBI Summary for CD108	The protein encoded by this gene binds to cell surfaces through a glycosylphosphatidylinositol (GPI) linkage. The encoded glycoprotein is found on activated lymphocytes and erythrocytes. This protein may be involved in immunomodulatory and neuronal processes. Defects in this gene can result in loss of bone mineral density (BMD). Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]

UniProt Comments for CD108	SEMA7A: Plays an important role in integrin-mediated signaling and functions both in regulating cell migration and immune responses. Promotes formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK1 and MAPK3. Promotes production of proinflammatory cytokines by monocytes and macrophages. Plays an important role in modulating inflammation and T-cell-mediated immune responses. Promotes axon growth in the embryonic olfactory bulb. Promotes attachment, spreading and dendrite outgrowth in melanocytes. Belongs to the semaphorin family. Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 15q22.3-q23 Cellular Component: membrane; plasma membrane; external side of plasma membrane Molecular Function: integrin binding; protein binding; receptor activity Biological Process: integrin-mediated signaling pathway; osteoblast differentiation; axon guidance; axon extension; positive regulation of axon extension; regulation of inflammatory response; immune response; olfactory lobe development; positive regulation of protein amino acid phosphorylation; inflammatory response Disease: Blood Group, John Milton Hagen System
Research Articles on CD108	**1.** two MTRAP monomers interact via their tandem TSR domains with the Sema domains of a Semaphorin-7A homodimer
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