CD81 Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD81, Recombinant Protein
Full Product Name	CD81 Protein, Human, Recombinant (mFc Tag)
Product Gene Name	CD81 recombinant protein
Product Synonym Names	Human CD81/TAPA-1 Protein (Fc Tag); CVID6 Protein, Human; S5.7 Protein, Human; TAPA1 Protein, Human; TSPAN28 Protein, Human; CD81 molecule
Sequence	Phe113-Lys 201
Host	HEK293 Cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Purity/Purification	>95% as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.
Molecular Weight	25,809 Da
OMIM	M33680 mRNA
3D Structure	ModBase 3D Structure for P60033
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Asp
Tag	N-mouse IgG1-Fc
Protein Construction	A DNA sequence encoding the human CD81 (NP_004347.1)(Phe113-Lys201) was expressed with the Fc region of mouse IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Related Product Information for CD81 recombinant protein	Background: CD81, also known as TAPA-1, belongs to the transmembrane 4 superfamily, also known as the tetraspanin family. Members of this family mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility.CD81 is a widely expressed cell-surface protein involved in an astonishing variety of biologic responses. It is related to adhesion, morphology, activation, proliferation, and differentiation of B, T, and other cells. On B cells CD81 is part of a complex with CD21, CD19, and Leu13. This complex reduces the threshold for B cell activation via the B cell receptor by bridging Ag specific recognition and CD21-mediated complement recognition.
Product References and Citations for CD81 recombinant protein	Petracca R. et al., 2000, J Virol. 74 (10): 4824-30. Bartosch B. et al., 2003, The Journal of Biological Chemistry. 278 (43): 41624-30. Clark KL. et al., 2001, Journal of Immunology. 167 (9): 5115-21.
Other Notes	Small volumes of CD81 recombinant protein 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 CD81 purchase	MBS8121648 is a recombinant protein targeting CD81. Also known as CD81 Protein, Human, Recombinant (mFc Tag). Host: HEK293 Cells.



SDS-Page of CD81 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD81. It may not necessarily be applicable to this product.

NCBI GI #	4757944
NCBI GeneID	975
NCBI Accession #	NP_004347.1
UniProt Primary Accession #	P60033
UniProt Secondary Accession #	P18582; Q5U0J6
UniProt Related Accession #	P60033
GenBank Nucleotide #	NM_004356.3
NCBI Official Full Name	CD81 antigen isoform 1
NCBI Official Synonym Full Names	CD81 molecule
NCBI Official Symbol	CD81
NCBI Official Synonym Symbols	S5.7; CVID6; TAPA1; TSPAN28
UniProt Protein Name	CD81 antigen
UniProt Synonym Protein Names	26 kDa cell surface protein TAPA-1; Target of the antiproliferative antibody 1; Tetraspanin-28; Tspan-28; CD_antigen: CD81
Protein Family	CD81 antigen
UniProt Gene Name	CD81
UniProt Synonym Gene Names	TAPA1; TSPAN28; Tspan-28
NCBI Protein Information	CD81 antigen; tspan-28; tetraspanin-28; 26 kDa cell surface protein TAPA-1; CD81 antigen (target of antiproliferative antibody 1)
NCBI Summary for CD81	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]
UniProt Comments for CD81	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May act as the viral receptor for HCV.(Microbial infection) Acts as a receptor for hepatitis C virus (HCV) in hepatocytes. Associates with CLDN1 and the CLDN1-CD81 receptor complex is essential for HCV entry into host cell.

Research Articles on CD81	**1.** CLEC4M and CD81 both are still crucial for hepatitis C virus entry into hepatocytes.
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