CD81 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD81, Monoclonal Antibody
Full Product Name	CD81 (CD81 Antigen, 26kD Cell Surface Protein TAPA-1, Target of the Antiproliferative Antibody 1, Tetraspanin-28, Tspan-28, TAPA1, TSPAN28) (MaxLight 405)
Product Gene Name	anti-CD81 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2B7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD81.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	25,809 Da
OMIM	M33680 mRNA
3D Structure	ModBase 3D Structure for P60033
Immunogen	Partial recombinant corresponding to aa25-127 from CD81 (AAH02978) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GGVILGVALWLRHDPQTTNLLYLELGDKPAPNTFYVGIYILIAVGAVMMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFY
Conjugate	MaxLight405
Product Categories/Family for anti-CD81 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD81 antibody	FLISA
Application Notes for anti-CD81 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CD81 antibody	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16kD Leu-13 protein to form a complex possibly involved in signa transduction. May acts a the viral receptor for HCV.

Other Notes	Small volumes of anti-CD81 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 CD81 purchase	MBS6189337 is an antibody targeting CD81. Also known as CD81 (CD81 Antigen, 26kD Cell Surface Protein TAPA-1, Target of the Antiproliferative Antibody 1, Tetraspanin-28, Tspan-28, TAPA1, TSPAN28) (MaxLight 405). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	12804238
NCBI GeneID	975
NCBI Accession #	BC002978
NCBI Related Accession #	AAH02978
UniProt Primary Accession #	P60033
UniProt Secondary Accession #	P18582; Q5U0J6
UniProt Related Accession #	P60033
NCBI Official Full Name	Homo sapiens CD81 molecule, mRNA
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
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.** CD81 expression was lower in systemic sclerosis patients compared to controls independent of disease duration.
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