

Rat anti-Human CD81 Monoclonal Antibody | anti-CD81 antibody

anti-human CD81 monoclonal antibody

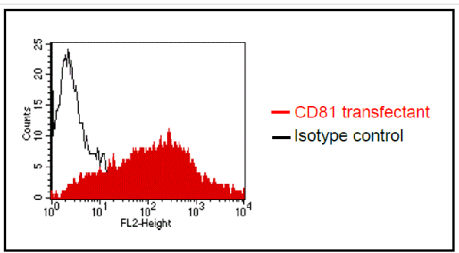
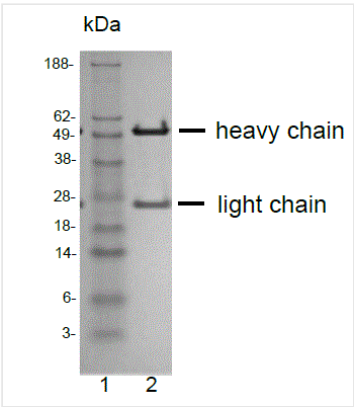
CATALOG # AAA71476	HOST Rat	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD81; Monoclonal Antibody; anti-human CD81 monoclonal antibody; TAPA-1; anti-CD81 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	QV-6A8-S3
Specificity	anti-human CD81 (TAPA-1)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	236
Applicable Applications for anti-CD81 antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human CD81
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)



Application Data
Fig.1: FACS analysis of Dubca cells using QV-6A8-S3 Cat. # GM-1113. Dubca cells were transiently transfected with an expression vector encoding CD81 (red curve). Binding of QV-6A8-S3 was detected with a PE-conjugated secondary antibody. (Isotype control: black curve).

Application Data
Fig.3: SDS-PAGE analysis of purified QV-6A8-S3 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified QV-6A8-S3 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.

ADDITIONAL INFORMATION

Related Product Information for anti-CD81 antibody	Background: CD81 (TAPA-1) belongs to the transmembrane 4 superfamily (tetraspanin family). CD81 is a widely expressed cell-surface protein that is characterized by the presence of four transmembranic domains, short N and C termini, a small extracellular loop (SEL) and a large extra-cellular loop (LEL) (1). It is expressed on cells of hematopoietic, neuroectodermal and mesenchymal origin and plays a role in the regulation of cell development, cell-growth and signal transduction. CD81 plays a critical role in Hepatitis C Infection and is involved in HCV entry due to its ability to interact with virus' E1/E2 glycoproteins (2,3). CD81 is an essential HCV host factor as silencing of CD81 expression by CD81-specific monoclonal antibodies in hepatoma cells inhibits HCV entry (4).
References	Levy S, Todd SC and Maecker HT (1998). CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. Annu Rev Immunol 16:89-109. Pileri P, Uematsu Y, Campagnoli S, Galli G, Falugi F, Petracca R, Weiner AJ, Houghton M, Rosa D, Grandi G and Abrignana S (1998). Binding of Hepatitis C Virus to CD81. Science 282 no. 5390 pp. 938-941 Flint M, von Hahn T, Zhang J, Farquhar M, Jones CT, Balfe P, Rice CM and McKeating JA (2006). Diverse CD81 Proteins Support Hepatitis C Virus Infection. Journal of Virology p.11331- 11342 Fofana I, Xiao F, Thumann C, Turek M, Zona L, Tawar RG, Grunert F, Thompson J, Zeisel MB, Baumert TF (2013). A Novel Monoclonal Anti-CD81 Antibody Produced by Genetic Immunization Efficiently Inhibits Hepatitis C Virus Cell-Cell Transmission. PLoS One 21;8(5):e64221

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757944
NCBI GeneID	975
NCBI Accession #	NP_004347.1
NCBI GenBank Nucleotide #	NM_004356.3
UniProt Accession #	P60033; P18582; Q5U0J6
Molecular Weight	25,809 Da
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
NCBI Protein Information	CD81 antigen; tspar-28; tetraspanin-28; 26 kDa cell surface protein TAPA-1; CD81 antigen (target of antiproliferative antibody 1)

UniProt Gene Name	CD81
UniProt Synonym Gene Names	TAPA1; TSPAN28; Tspan-28
UniProt Entry Name	CD81_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd81-antibody-clone-qv-6a8-s3-competitive-elisa-flow-cytometry-elisa/71476>