

Product datasheet for **AP32979PU-N**

TAPA1 (CD81) Rat Monoclonal Antibody [Clone ID: QV-6A8-S3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	QV-6A8-S3
Applications:	ELISA, FC, WB
Recommended Dilution:	Flow Cytometry: 1.2 µg/10 ⁶ cells. ELISA: 1/200-1/400. Cell based ELISA with intakt, transiently transfected cells: 1/200-1/400.
Reactivity:	Human
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	cDNA encoding Human CD81
Specificity:	Recognizes Human CD81. Other species not tested. Selection: Based on recognition of the complete native protein expressed on transfected mammalian cells.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD81 molecule
Database Link:	Entrez Gene 975 Human P60033



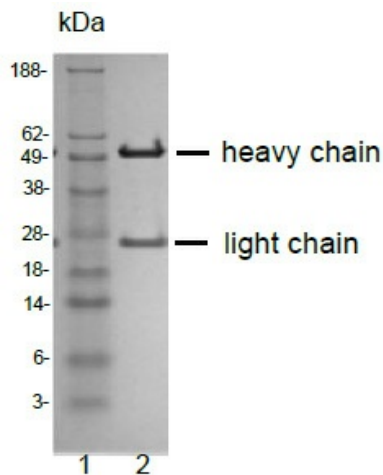
[View online »](#)

Background:

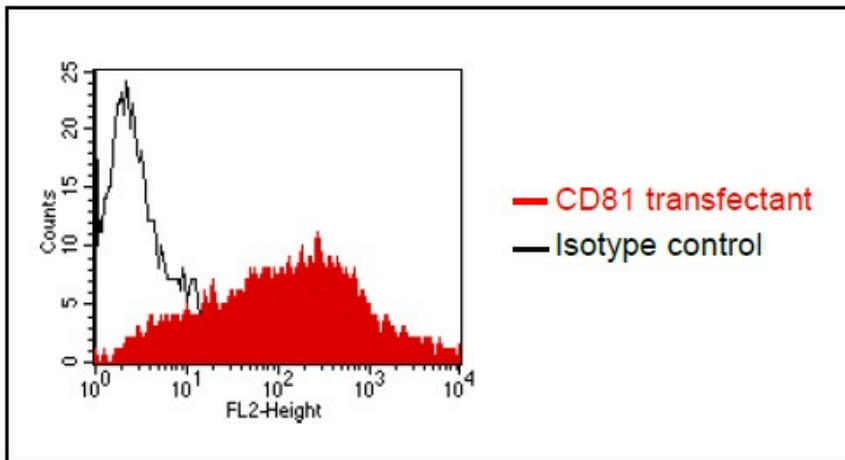
CD81 (TAPA-1) belongs to the transmembrane 4 superfamily (tetraspanin family). CD81 is a widely expressed cell-surface protein that is characterized by the presence of four transmembranic domains, short N and C termini, a small extracellular loop (SEL) and a large extra-cellular loop (LEL) (1). It is 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).

Synonyms:

S5.7; TAPA-1; TAPA1; Tetraspanin-28; Tspan-28; TSPAN28

Product images:


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



FACS analysis of Dubca cells using QV-6A8-S3. 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)