

## CD81 Protein-VLP, Human, Recombinant (Flag)

## General Information

Synonyms:	TSPAN28;TAPA1;TAPA-1;CVID6;S5.7
Protein Construction:	A DNA sequence encoding the Human CD81-VLP (Full Length) (P60033) (Met1-Tyr236) was fused with a signal peptide at the N-terminus and a flag tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P60033
Molecular Weight:	27.12 kDa (predicted)

## QC Testing

Biological Activity:	Immobilized CD81 Protein-VLP, Human, Recombinant (Flag) (Cat#TMPY-07124) at 5 µg/mL (100 µL/well) can bind Anti-CD81 Monoclonal antibody, Human IgG1, the EC50 is 2-9 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

## Preparation and Storage

## Stability &amp; Storage:

Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.  
Actual storage temperature shall be subject to the COA.

## Shipping:

Proteins are shipped with blue ice.

## 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.

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