

# Human CD81 / TAPA-1 Protein (Fc Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 14244-H04H

## General Information

### Gene Name Synonym:

CVID6; S5.7; TAPA1; TSPAN28

### 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.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** (94.0 %±4.4) % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Asp

### Molecular Mass:

The recombinant human CD81/mFc comprises 325 amino acids and has a predicted molecular mass of 36.4 kDa. The apparent molecular mass of the monomer is approximately 38-42 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

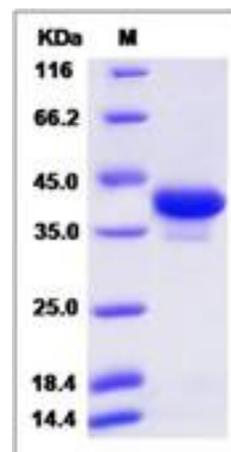
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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.

## References

1. Petracca R. et al., 2000, J Virol. 74 (10): 4824-30. 2. Bartosch B. et al., 2003, The Journal of Biological Chemistry. 278 (43): 41624-30. 3. Clark KL. et al., 2001, Journal of Immunology. 167 (9): 5115-21.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 ● Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 ● Tel:+86-400-890-9989 ● <http://www.sinobiological.com>