

# Recombinant human CD81 protein

Catalog Number: ATGP3661

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

113-201aa

### UniProt No.

P60033

### NCBI Accession No.

NP\_004347.1

### Alternative Names

CD81 antigen isoform 1, CD81, CVID6, S5.7, TAPA1, TSPAN28

## PRODUCT SPECIFICATION

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### Molecular Weight

37 kDa (331aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

hIgG-His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD81, also known as CD81 antigen isoform 1, belongs to the tetraspanin family. It interacts directly with immunoglobulin superfamily member 8 (IGSF8, CD316) and CD36. In B cells, it is part of a complex with CD21, CD19 and Leu13. This complex reduces the threshold for B cell activation through B cell receptors by linking Ag specific recognition and CD21 mediator recognition. On T cells it associates with CD4 and CD8 and provides a

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costimulatory signal with CD3. Recombinant human CD81, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

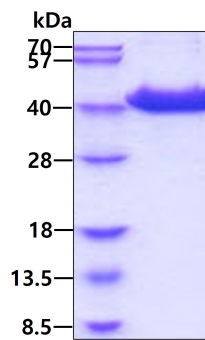
<ADP>FVNKDQI AKDVKQFYDQ ALQQAVVDDD ANNAKAVVKT FHETLDCCGS STLTALTTSV LKNNLCPSGS NIISNLFKED  
CHQKIDDLFS GK<LEPKSCDK THTCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV  
EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTLPSRDELTKNQ  
VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL HNHYTQKSL  
LSPGKHHHHH H>

## General References

Charrin S., et al. (2014) J. Cell. Sci. 127:3641-3648.  
Oren, R., et al. (1990) Mol. Cell. Biol. 10:4007-4015.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.