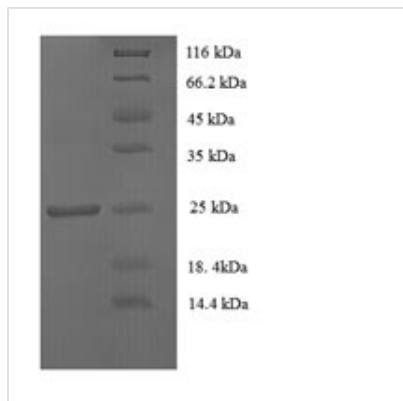




Recombinant Human CD81 antigen (CD81), partial

Product Code	CSB-EP004960HU
Relevance	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May act as the viral receptor for HCV.
Abbreviation	Recombinant Human CD81 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P60033
Alias	26 kDa cell surface protein TAPA-1Target of the antiproliferative antibody 1Tetraspanin-28 ;Tspan-28; CD81
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	FVNKDQIAKDVVKQFYDQALQQAVVDDDANNAKAVVKTFHETLDCCGSSTLTAL TTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGK
Research Area	Immunology
Source	E.coli
Target Names	CD81
Expression Region	113-201aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	25.8kDa
Protein Length	Extracellular Domain

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

The DNA coding sequence translated into the human CD81 protein sequence (113-201aa) was fused with the N-terminal 6xHis-SUMO tag sequence to form the recombinant DNA, which was inserted into an expression vector. The reconstructed expression vector was transformed into the E.coli for follow-up expression. The product underwent purification to obtain the recombinant human CD81 protein with N-terminal 6xHis-SUMO tag. The SDS-PAGE analysis determined its purity higher than 90%. After electrophoresis, a 25 kDa protein band was observed on the gel.

CD81 is a gene providing instructions for making a protein named CD81 antigen (also known as Tspan-28 and CD81) in human and belongs to Tetraspanin (TM4SF) family. CD81 is a tetraspanin molecule mainly expressed on hematolymphoid, neuroectodermal and mesenchymal tumor cell lines. CD81 forms complexes with CD19, CD21, Leu 13, and integrins on cell membrane and acts as a receptor for the envelope protein E2 of chronic hepatitis C virus. Diseases associated with CD81 include immunodeficiency, common Variable and common variable immunodeficiency (CVID6).

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.