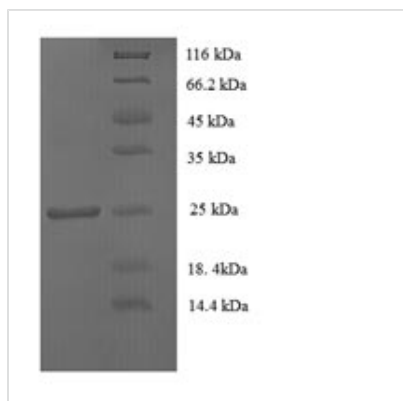




# Recombinant Human CD81 antigen (CD81), partial

|                            |   |
|----------------------------|---|
| <b>Product Code</b>        | CSB-EP004960HU  |
| <b>Relevance</b>           | 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.   |
| <b>Storage</b>             | 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. |
| <b>Uniprot No.</b>         | P60033  |
| <b>Alias</b>               | 26 kDa cell surface protein TAPA-1Target of the antiproliferative antibody 1Tetraspanin-28 ;Tspan-28; CD81  |
| <b>Product Type</b>        | Recombinant Protein   |
| <b>Immunogen Species</b>   | Homo sapiens (Human)  |
| <b>Purity</b>              | Greater than 90% as determined by SDS-PAGE.   |
| <b>Sequence</b>            | FVNKDQIAKDVKQFYDQALQQAVVDDDDANNAKAVVKTFHETLDCCGSSTLTAL<br>TTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGK  |
| <b>Lead Time</b>           | 3-7 business days   |
| <b>Research Area</b>       | Immunology  |
| <b>Source</b>              | E.coli  |
| <b>Gene Names</b>          | CD81  |
| <b>Expression Region</b>   | 113-201aa   |
| <b>Notes</b>               | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>            | N-terminal 6xHis-SUMO-tagged  |
| <b>Mol. Weight</b>         | 25.8kDa   |
| <b>Protein Description</b> | 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.