

## CD133/PROM1 Protein-VLP, Human, Recombinant (His)

### General Information

Synonyms: Antigen AC133;CD133;PROML1;PROM1;Prominin-like protein 1;Prominin-1

Protein Construction: 20-865 aa

Species: Human

Expression Host: HEK293 Cells

Accession: O43490

Molecular Weight: 96.7 kDa (predicted)

AA Sequence:

GGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVHIFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKP  
 ETVILGLKIVVYEAGIILCCVLGILLFIILMPLVGYFFCMCRCCNCKGEMHQKQKENGPFRLKCF AISLLVICIIISIGI  
 FYGFVANHQVRTRIKRSRKLADSNFKDLRTLLNETPEQIKYILAQYNTTKDKAFTDLNSINSVLGGGILDRLRPN  
 IIPVLDEIKSMATAIKETKEALENMNSTLKSLLHQSTQLSSSLTSVKTSLSRSSLNDPLCLVHPSSSETCNSIRLSLS  
 QLNSNPELRQLPPVDAELDNVNNVLRDLDGLVQQGYQSLNDIPDRVQRQT TTVVAGIKRVLNSIGSDIDNV  
 TQRLPIQDILSAFSVYVNNTESYIHRNLPTLEEDSYWWLGGLVICSLTLIVIFYLGLLCGVCGYDRHATPTTR  
 GCVSNTGGVFLMVGVLGSLFCWILMIIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNEDWEYLSGKLF  
 NKSKMKTTFEQVYSDCKNRTGYTLHLQNSFNISEHLNINEHTGSISSELESKVNINIFLLGAAGRKNLQDF  
 AACGIDRMNYDSYLAQTGKSPAGVNLLSFAYDLEAKANSLPPGNLRNSLKRDAQTIKTIHQQRVLP IEQSLST  
 LYQSVKILQRTGNGLLERVTRILASLDFAQNFITNNTSSVIEETKKYGRTIIGYFEHYLQWIEFSISEKVASCKPVA  
 TALDTAVDVFLCSYIIDPLNLFWFGIGKATVFLPALIFAVKLAKYRRMSEDVYDDVETIPMKNMENGNGY  
 HKDHVYGIHNPVMTSPSQH

### QC Testing

Biological Activity: Measured by its binding ability in a functional ELISA. Immobilized PROM1 at 5 µg/mL can bind Anti-PROM1 recombinant antibody, the EC50 is 0.4322-0.7189 ng/mL.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 6% Trehalose, pH 7.4

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

May play a role in cell differentiation, proliferation and apoptosis. Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner.

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