

## Product datasheet for TP327854L

### CD133 (PROM1) (NM\_001145847) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human prominin 1 (PROM1), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC227854 protein sequence Red=Cloning site Green=Tags(s)

MALVLGSLLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVHIFLYVWQPRD  
 FPEDTLRKFLQKAYESKIDYDKIVYYEAGIILCCVLGLLFIILMPLVGYFFCMCRCCNKCGGEMHQRQKE  
 NGPFLRKCF AISLLVICIIISIGIFYGFVANHQVTRIKRSRKLADSNFKDLRLLNETPEQIKYILAQY  
 NTKDKAFTDLNSINSVLGGGILDRLRPNIIPVLDEIKSMATAIKETKEALENMNSTLKSLHQQSTQLSS  
 SLTSVKTSLRSSLNDPLCLVHPSETCNSIRLSLSQLNSNPELRQLPPVDAELDNVNNVLRDLDGLVQQ  
 GYQSLNDIPDRVQRQTTTAVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNNTESIHRNLPTLEE  
 YDSYWWLGGVLICSLTLVIFYLGLLCGVCYDRHATPTTRGCVSNTGGVFLMVGVLGSLFCWILMI  
 IVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNEDWEYLSGKLFNKSKMMLTFEQVYSDCKKNRGT  
 YGTLHLQNSFNISEHLNINEHTGSISSELESKVNINIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTG  
 KSPAGVNLFSFAYDLEAKANSLPPGNLRNSLKRDAQTIKTIHQQRVLPQSLSTLYQSVKILQRTGNGL  
 LERVTRILASLDFAQNFITNNTSSVIIIEETKKYGRITIIIGYFEHYLQWIEFSISEKVASCKPVATALDTAV  
 DVFLCSYIIDPLNLFWFGIGKATVFLLPALIFAVKLAKYYRRMDESDVYDDVETIPMKNMENGNGYHKD  
 HVYGIHNPVMTSPSQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

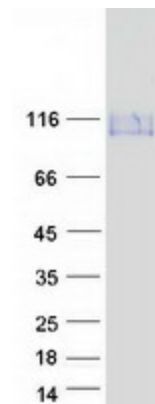
Tag:	C-Myc/DDK
Predicted MW:	96.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001139319</a>
<b>Locus ID:</b>	8842
<b>UniProt ID:</b>	<a href="#">O43490</a> , <a href="#">A0A0A0N0M1</a>
<b>RefSeq Size:</b>	4257
<b>Cytogenetics:</b>	4p15.32
<b>RefSeq ORF:</b>	2568
<b>Synonyms:</b>	AC133; CD133; CORD12; MCDR2; MSTP061; PROML1; RP41; STGD4
<b>Summary:</b>	This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

### Product images:



Coomassie blue staining of purified PROM1 protein (Cat# [TP327854]). The protein was produced from HEK293T cells transfected with PROM1 cDNA clone (Cat# [RC227854]) using MegaTran 2.0 (Cat# [TT210002]).