

Prominin-1 (PROM1) Recombinant Protein | PROM1 recombinant protein

Recombinant Human Prominin-1 (PROM1)-VLPs (Active)

CATALOG # AAA279271	HOST Mammalian cell
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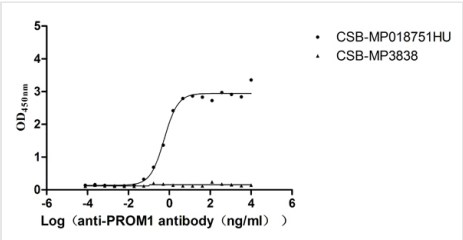
PRODUCT SYNONYMS

Prominin-1 (PROM1); Recombinant Human Prominin-1 (PROM1)-VLPs (Active); Prominin-1 Antigen AC133; Prominin-like protein 1; CD antigen CD133; PROM1 recombinant protein

PRODUCT SPECIFICATIONS

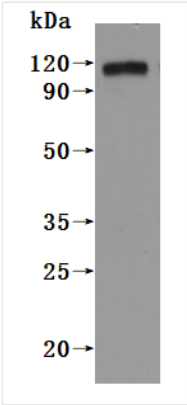
Host	Mammalian cell
Purity/Purification	The purity information is not available for VLPs proteins.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	20-865aa; Full Length of Mature Protein
Sequence	GGQPSSTDAP KAWNYELPAT NYETQDSHKA GPIGLFELV HIFLYVVQPR DFPEDTLRKF LQKAYESKID YDKPETVILG LKIVYYEAGI ILCCVLGLLF IILMPLVG YF FCMCRCCNKC GGEMHQRQKE NGPFLRKCFA ISLLVICIII SIGIFYGFVA NHQVRTRIKR SRKLADSNFK DLRTLLNETP EQIKYILAQY NTKDKAFTD LNSINSVLGG GILDRLRPNI IPVLD EIKSM ATAIKETKEA LENMNSTLKS LHQQSTQLSS SLTSVKTSR SSLNDPLCLV HPSSETCNSI RLSLSQLNSN PELRQLPPVD AELDNVNNVL RTDL DGLVQQ GYQSLNDIPD RVQRQTTTVV AGIKRVLNSI GSDIDNVTQR LPIQDILSAF SVYVNNTESY IHRNLPTLEE YDSYWWLGGL VICSLTLIV IFYYLGLLCG VCGYDRHATP TTRGCVSNTG GVFLMVG VGL SFLFCWILMI IVLTFVFGA NVEKLICEPY TSKE LFRVLD TPYLLNEDWE YYLSGKLFNK SKMKLTFEQV YSDCKKNRGT YGTLHLQNSF NISEHLNINE HTGSISSELE SLKVNLNIFL LGAAGRKNLQ DFAACGIDRM NYDSYLAQTG KSPAGVNLIS FAYDLEAKAN SLPPGNLRNS LKRDAQTIKT IHQQRVLP IE QSLSTLYQSV KILQRTGNGL LERVTRILAS LDFAQNFITN NTSSVIIET KKYGR TIIGY FEHYLQWIEF SISEKVASCK PVATALDTAV DVFLCSYIID PLNLFWFGIG KATVFLLPAL IFAVKLAKYY RRMDS EDVYD DVETIPMKNM ENGNNGYHKD HVG IHN PVM TSPSQH
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)
Research Area	Others Less than 1.0 EU/ug as determined by LAL method.
Transmembrane Domain	5TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized PROM1 at 5 ug/mL can bind Anti-PROM1 recombinant antibody, the EC50 is 0.4322-0.7189 ng/mL.
Preparation and 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 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. 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. Aliquot for long-term storage at -80 degree C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing. The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20 degree C/-80 degree C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).

IMAGES



Bioactivity

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



Application Data
is detected by Mouse anti-6*His monoclonal antibody.

ADDITIONAL INFORMATION

Related Product Information for PROM1 recombinant protein	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
Product Categories/Family for PROM1 recombinant protein	MP-VLP Transmembrane Protein & Active Protein & In Stock Protein
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13124442
NCBI GeneID	8842
UniProt Accession #	O43490; Q6SV49; Q6SV50; Q6SV51; Q6SV52; Q6SV53; Q96EN6
Molecular Weight	97kDa
NCBI Official Full Name	Prominin-1
NCBI Official Synonym Full Names	prominin 1
NCBI Official Symbol	PROM1
NCBI Official Synonym Symbols	RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP061
NCBI Protein Information	prominin-1; hProminin; antigen AC133; prominin-like protein 1; hematopoietic stem cell antigen
UniProt Protein Name	Prominin-1
UniProt Gene Name	PROM1
UniProt Synonym Gene Names	PROML1
UniProt Entry Name	PROM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/prom1-recombinant-protein-mammalian/279271>