

Recombinant Human Prominin 1, GST-tagged

Cat. No. CD133-90H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PROM1 (1 a.a. - 856 a.a.) fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	122.7 kDa
Sequence	MALVLGSLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFE LVHIFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKIVYYEAGIILCCVLGLLFIILMPLVG YFFCMCRCCNKCGGEMHQRQKENGPFRLKCFALSLVICIISIGIFYGFVANHQVRT RIKRSRKLADSNFKDLRTLNETPEQIKYILAQYNTTKDKAFTDLNSINSVLGGGILDR LRPNIIPLVDEIKSMATAIKETKEALENMNSTLKSLLHQQSTQLSSSLTSVKTSLRSSLN DPLCLVHPSSSETCNSIRLSLSQLNSNPQLRQLPPVDAELDNVNNVLRDLDGLVQQG

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YQSLNDIPDRVQRQT TTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNTESY
 IHRNLPTLEEYDSYWWLGGGLVICSLLTLIVIFYYLGLLCGVCGYDRHATPTTRGCVSN
 TGGVFLMVGVL SFLFCWILMIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNE
 DWEYYLSGKLFNKSKMKLTFEQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGS
 ISSELESLKVN LNIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFA
 YDLEAKANS LPPGNLRNSLKRDAQTIKTIHQQRVLP IEQSLSTLYQSVKILQRTGNGL
 LERVTRILASLDFAQNFITNNTSSVII EETKKYGRTIIGYFEHYLQWIEFSISEKVASCKP
 VATALDTAVDVFLCSYIIDPLNLFWFGIGKATVFLLPALIFAVKLAKYYRRMDS EDVYD
 DVETIPMKNMENGNGYHKDHVYGIHNPVMTSPSQH

Storagebuffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.

Applications ELISA; WB

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

OfficialSymbol PROM1

GENE INFORMATION

Gene Name [PROM1](#) [prominin 1 \[Homo sapiens\]](#)

Synonyms prominin 1; prominin (mouse)-like 1; AC133; Stargardt disease 4 (autosomal dominant); CD133; OTTHUMP00000217744; RP41; OTTHUMP00000217745; PROML1; OTTHUMP00000217746; Antigen AC133; hProminin; Prominin-like protein 1; hematopoietic stem cell antigen; CORD12; prominin-1; MCDR2; prominin-like 1; STGD4; CD133 antigen; macular dystrophy, retinal 2; MSTP061

Gene ID [8842](#)

mRNA Refseq [NM_001145847](#)

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Protein Refseq	NP_001139319
MIM	604365
UniProt ID	O43490
Chromosome Location	4p15.32
Function	actinin binding; cadherin binding; protein binding

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