

Recombinant Human PROM1 Protein (Gly508-Asn792), His tagged

Cat. No. PROM1-2795H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PROM1 (Gly508-Asn792) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly508-Asn792
Description	CD133, also known as PROM1 and Prominin 1, is a pentaspan transmembrane glycoprotein which belongs to the prominin family. It localizes to membrane protrusions and is often expressed on adult stem cells. CD133 is known to play a role in maintaining stem cell properties by suppressing differentiation. CD133 binds cholesterol in cholesterol-containing plasma membrane microdomains. It is proposed to play a role in apical plasma membrane organization of epithelial cells. CD133 is also involved in regulation of MAPK and Akt signaling pathways. Mutations in PROM1 gene have been shown to result in retinitis pigmentosa and Stargardt disease. PROM1 gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Expression of this gene is also associated with several types of cancer.
Molecular Mass	31.84 kDa
Purity	>90 % as determined by SDS-PAGE.

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	PROM1 prominin 1 [Homo sapiens (human)]
Official Symbol	PROM1
Synonyms	PROM1; prominin 1; macular dystrophy, retinal 2, MCDR2, prominin (mouse) like 1, PROML1, Stargardt disease 4 (autosomal dominant), STGD4; prominin-1; AC133; CD133; RP41; hProminin; antigen AC133; prominin-like protein 1; hematopoietic stem cell antigen; MCDR2; STGD4; CORD12; PROML1; MSTP061;
Gene ID	8842
mRNA Refseq	NM_001145847
Protein Refseq	NP_001139319
MIM	604365

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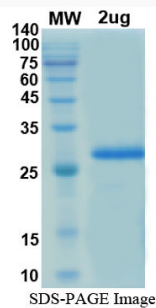
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UniProt ID

O43490

SDS-PAGE



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