

# 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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<b>Notes</b>	For research use only.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	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

<b>Gene Name</b>	PROM1 prominin 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PROM1
<b>Synonyms</b>	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;
<b>Gene ID</b>	8842
<b>mRNA Refseq</b>	NM_001145847
<b>Protein Refseq</b>	NP_001139319
<b>MIM</b>	604365

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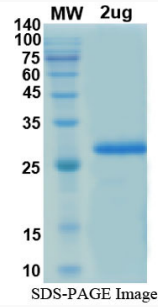
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**UniProt ID**

O43490

**SDS-PAGE**



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