

Datasheet for ABIN7321128

CD133 Protein (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD133 (PROM1)
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD133 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat CD133/PROM1/Prominin 1 Protein (His Tag)
Sequence:	Asn171-Tyr424
Characteristics:	A DNA sequence encoding the rat PROM1 (NP_001103607.1) (Asn171-Tyr424) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method

Target Details

Target:	CD133 (PROM1)
Alternative Name:	CD133/PROM1/Prominin 1 (PROM1 Products)
Background:	Background: 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

Target Details

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.

Synonym: PROM1

Molecular Weight: 30.9 kDa

UniProt: [F1MAN1](#)

Application Details

Restrictions: For Research Use only

Handling

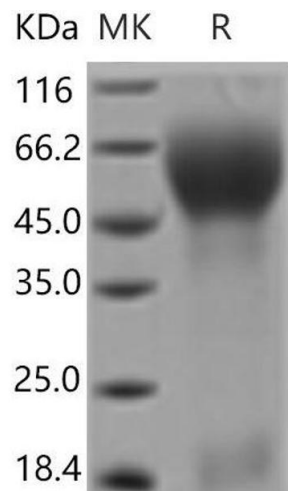
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.