

CD133/PROM1 Protein, Rat (HEK293, His)

Cat. No.:	HY-P76196
Synonyms:	Prominin-1; Antigen AC133; CD133; PROM1; PROML1; MSTP061
Species:	Rat
Source:	HEK293
Accession:	NP_001103607 (N171-Y424)
Gene ID:	60357
Molecular Weight:	47-57 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD133/PROM1 Protein is predicted to possess actinin binding activity, cadherin binding activity, and cholesterol binding activity. The protein is anticipated to be involved in various processes, including glomerular epithelial cell differentiation, photoreceptor cell maintenance, and retina morphogenesis in camera-type eyes. Predicted to be located in cellular components such as the endoplasmic reticulum-Golgi intermediate compartment, extracellular exosome, and photoreceptor outer segment membrane, CD133 is expected to be active in cellular components like the apical plasma membrane, microvillus, and prominosome. Additionally, it is predicted to be an integral component of the plasma membrane. CD133 is used in the study of diabetes mellitus and is implicated in human conditions such as cone-rod dystrophy 12 and retinitis pigmentosa 41. Notably, CD133 exhibits biased expression in tissues, with prominent levels observed in the lung, kidney, and eight other tissues, suggesting its diverse functional roles in these organs.
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Caution: Product has not been fully validated for medical applications. For research use only.

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