

Biotinylated Human CD133 Protein-Nanodisc

Cat. No. CD33-HM4N158B

Description

Source	Recombinant Biotinylated Human CD133 Protein-Nanodisc is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Gly20-His865.
Accession	O43490-1
Molecular Weight	The protein has a predicted MW of 100.7 kDa.
Endotoxin	Less than 1EU per µg by the LAL method.

Formulation and Storage

Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4). Notice: Not recommended for immunization and flow cytometry in mammalian cells.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

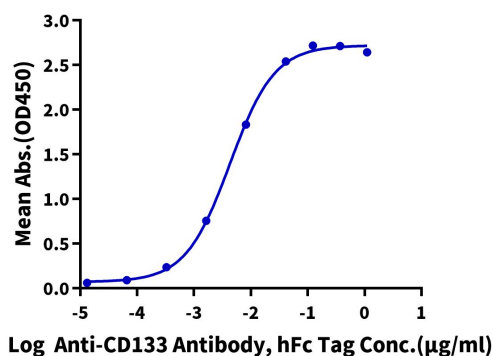
Prominin-1 (PROM1), also known as CD133, is expressed in hepatic progenitor cells (HPCs) and cholangiocytes of the fibrotic liver. It is a cell surface biomarker that allows the identification of stem and cancer stem cells from different organs. It is also expressed in several differentiated epithelial and non-epithelial cells.

Assay Data

ELISA Data

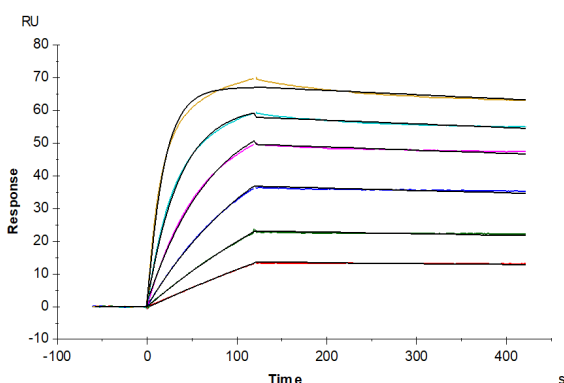
Biotinylated Human CD133 Nanodisc, His Tag ELISA

0.5µg Biotinylated Human CD133 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human CD133 Nanodisc, His Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CD133 Antibody, hFc Tag with the EC50 of 4.3ng/ml determined by ELISA (QC Test).

SPR Data



Biotinylated Human CD133 Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-CD133 Antibody, hFc Tag with an affinity constant of 46.06 pM as determined in SPR assay (Biacore T200).