

# Biotinylated Human CD133 Protein-Nanodisc

Cat. No. CD33-HM4N158B

## Description

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

## Formulation and Storage

<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Notice: Not recommended for immunization.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

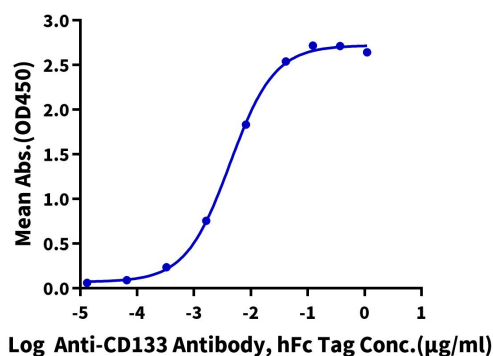
Prominin-1 (PROM1), also known as CD133, is expressed in hepatic progenitor cells (HPCs) and cholangiocytes of the fibrotic liver. It is a cell surface biomarker that allows the identification of stem and cancer stem cells from different organs. It is also expressed in several differentiated epithelial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

## Assay Data

### ELISA Data

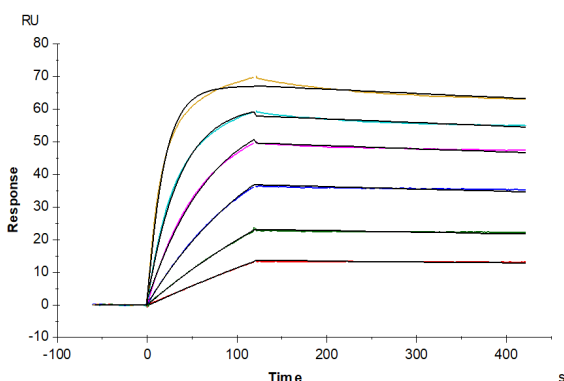
#### Biotinylated Human CD133 Nanodisc, His Tag ELISA

0.5 $\mu\text{g}$  Biotinylated Human CD133 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human CD133 Nanodisc, His Tag at 5 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the streptavidin precoated plate (5 $\mu\text{g}/\text{ml}$ ). 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).