

Human CD228/MFI2 Protein



Cat. No. MFI-HM228

Description	
Source	Recombinant Human CD228/MFI2 Protein is expressed from HEK293 with hFc (IgG1) tag tag at the C-terminus. It contains Gly20-Cys709.
Accession	P08582-1
Molecular Weight	The protein has a predicted MW of 101.45 kDa. Due to glycosylation, the protein migrates to 100-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

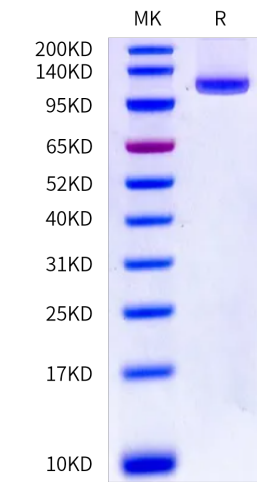
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Melanotransferrin is typically overexpressed in melanoma cells compared to other cell types - including cancer cells - and is efficiently sorted and secreted with nanovesicles, or so-called exosomes, due to its membrane-anchoring by a glycosylphosphatidylinositol. Melanotransferrin is exposed on the surface of exosomes and is accessible for antibody recognition.

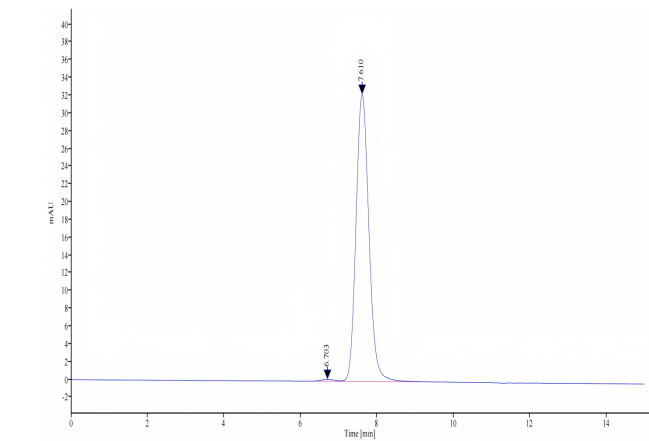
Assay Data

Bis-Tris PAGE



Human CD228 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



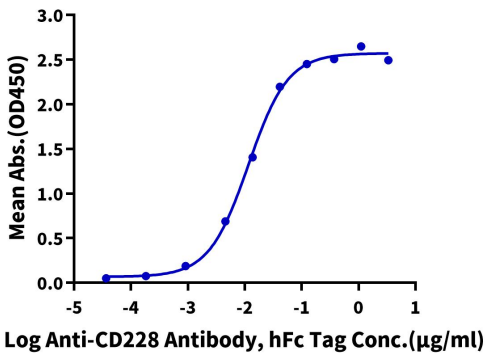
The purity of Human CD228 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human CD228, hFc Tag ELISA

0.05µg Human CD228, hFc Tag Per Well



Immobilized Human CD228, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD228 Antibody, hFc Tag with the EC50 of 11.5ng/ml determined by ELISA.