Biotinylated Human CD45/PTPRC Protein





Description	
Source	Recombinant Biotinylated Human CD45/PTPRC Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gln26-Lys416.
Accession	P08575-4
Molecular Weight	The protein has a predicted MW of 47.3 kDa. Due to glycosylation, the protein migrates to 80-110 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation on	d Storogo

Formulation and Storage

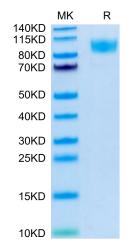
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for ontimal storage. Please minimize freeze-thaw cycles

Background

PTPRC (also known as CD45),T cells require the protein tyrosine phosphatase CD45 to detect and respond to antigen because it activates the Src family kinase Lck, which phosphorylates the T cell antigen receptor (TCR) complex. CD45 ativates Lck by opposing the negative regulatory kinase Csk. Paradoxically, CD45 has also been implicated in suppressing TCR signaling by dephosphorylating the same signaling motifs within the TCR complex upon which Lck acts.

Assay Data

Tris-Bis PAGE

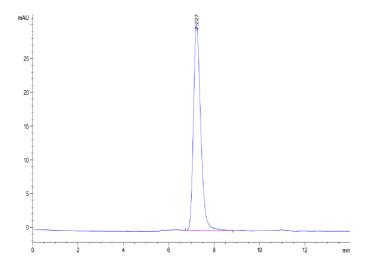


Biotinylated Human CD45 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

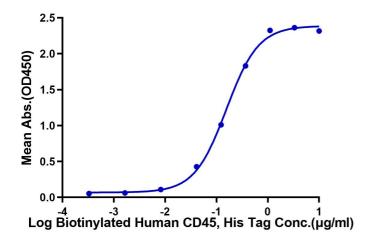
Assay Data



The purity of Biotinylated Human CD45 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human CD45, His Tag ELISA 0.2µg Anti-CD45 Antibody, hFc Tag Per Well



Immobilized Anti-CD45 Antibody at $2\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Biotinylated Human CD45, His Tag with the EC50 of 0.16 $\mu g/ml$ determined by ELISA.