Recombinant Human PTPRC/CD45RABC/CD45 Protein

Catalog No.: RP00397

Sequence Information

Species
Human

Gene ID
5788

Swiss Prot
P08575-3

Tags
C-His

Synonyms
L-CA; CD45; T200; PTPRC; B220; CD45R; GP180; LCA; LY5; EC 3.1.3.48

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
61.9 kDa

Observed MW
118-150 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

Basic Information

Description
Recombinant Human PTPRC/CD45RABC/CD45 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Lys577) of Human PTPRC/CD45RABC/CD45 (Accession #P08575-3) fused with a C-His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

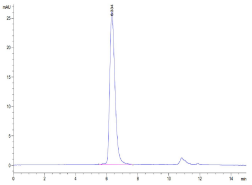
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

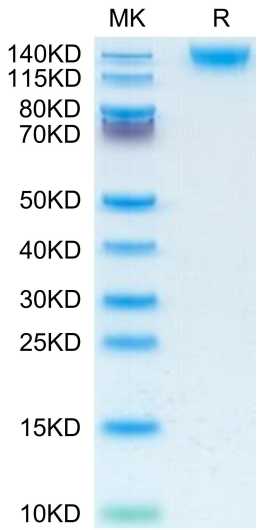
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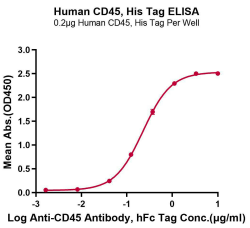
Validation Data



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



Recombinant Human PTPRC/CD45RABC/CD45 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human CD45, His Tag at 2 μg/mL (100 μL/well) on the plate. Dose response curve for Anti-CD45 Antibody, hFc Tag with the EC_{50} of 0.23 μg/mL determined by ELISA.