

# Recombinant Human PTPRC/CD45RA/CD45 Protein

Catalog No.: RP01529 Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot Human 5788 P08575-8

### Tags

C-Rabbit Fc

### **Synonyms**

B220;CD45;CD45R;GP180;L-CA;LCA;LY5;T200;PTPRC; B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200; receptor-type tyrosine-protein phosphatase C

### **Product Information**

Source Purification

HEK293 cells ≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

76.96 kDa 100-150 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

### 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.

### **Contact**

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### **Background**

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Protein tyrosine phosphatase, receptor type C (CD45), also known as PTPRC is a member of the protein tyrosine phosphatase (PTP) family which is known for its function to serve as signaling molecules and to regulate a variety of cellular processes such as cell proliferation, differentiation, mitotic cycle and oncogenic transformation. CD45 is found expression specifically in hemotopietic cells. CD45 consists of an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains. It serves as an essential regulator of T-cell and Bcell antigen receptor signaling through either direct interaction with components of the antigen receptor complexes or by activating various Src family kinases required for the antigen receptor signaling and it also can suppress JAK kinases.

### **Basic Information**

### **Description**

Recombinant Human PTPRC/CD45RA/CD45 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Lys482) of human PTPRC/CD45/CD45RA (Accession #AAD15273.2) fused with a raFc tag at the C-terminus.

### **Bio-Activity**

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

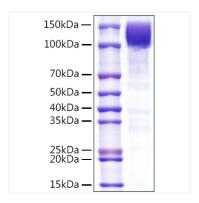
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

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

## **Validation Data**



Recombinant Human PTPRC/CD45RA/CD45 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.