

Recombinant Human PTPRC protein, His-tagged

Cat. No. PTPRC-11044H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD45RA/PTPRC protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 26 - Lys 482 (Accession # P08575-8). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gln 26
Species	Human
Source	HEK293
ProteinLength	26-482 aa
Description	CD45 is a receptor protein tyrosine phosphatase, also known as Ly-5 or leukocyte common antigen. CD45 mainly involves in the initiation of T cell receptor signaling by controlling the activation of the Src family protein-tyrosine kinases Lck and Fyn. CD45 deficiency causes in T- and B-lymphocyte dysfunction in the form of severe combined immune deficiency. It also takes a significant role in autoimmune diseases and cancer as well as in infectious diseases including fungal infections.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 53.2 kDa. The protein migrates as 110-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.

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Storage This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name PTPRC protein tyrosine phosphatase, receptor type, C [Homo sapiens]

Official Symbol PTPRC

Synonyms PTPRC; protein tyrosine phosphatase, receptor type, C; CD45; receptor-type tyrosine-protein phosphatase C; GP180; LCA; T200; CD45 antigen; T200 glycoprotein; leukocyte common antigen; leukocyte-common antigen; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide; LY5; B220; L-CA; CD45R;

Gene ID 5788

mRNA Refseq NM_002838

Protein Refseq NP_002829

MIM 151460

UniProt ID P08575

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