Active Recombinant Human PTPRC Protein, Fc-tagged

Cat. No. PTPRC-442H **Lot. No.** (See product label)

SPECIFICATION

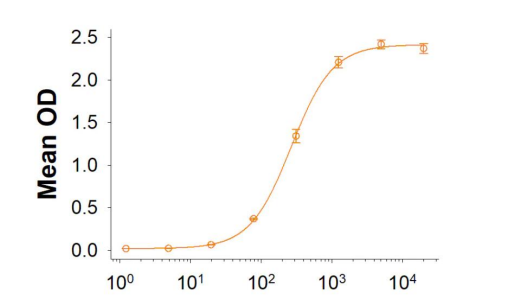
Product Overview	Human CD45RO (Gln24-Lys391) with Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Chinese Hamster Ovary cell line
Species	Human
Source	CHO
ProteinLength	24-391 a.a.
Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human CD45RO is immoblized at 2 μg/mL (100 μL/well), the concentration of Recombinant

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	Human Galectin-1 Protein that produces a 50% optimal binding response is found to be 100-500 ng/mL.
Molecular Mass	Predicted Molecular Mass: 71 kDa SDS-PAGE: 114-132 kDa, under reducing conditions
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 250 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

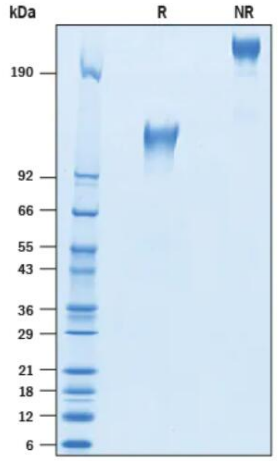
GENE INFORMATION

Gene Name	PTPRC protein tyrosine phosphatase receptor type C [Homo sapiens (human)]
Official Symbol	PTPRC
Synonyms	PTPRC; protein tyrosine phosphatase receptor type C; LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180; IMD105; receptor-type tyrosine-protein phosphatase C; CD45 antigen; T200 glycoprotein; T200 leukocyte common antigen; protein tyrosine

	phosphatase, receptor type, c polypeptide; EC 3.1.3.48
Gene ID	5788
mRNA Refseq	NM_002838
Protein Refseq	NP_002829
MIM	151460
UniProt ID	P08575
Recombinant Human CD45RO Fc Chimera Protein Binding Activity	 When Recombinant Human CD45RO is immoblized at 2 μg/mL (100 μL/well), the concentration of Recombinant Human Galectin-1 Protein that produces a 50% optimal binding response is found to be 100-500 ng/mL.

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Recombinant Human CD45RO Fc Chimera Protein SDS-PAGE.



2 μg/lane of Recombinant Human CD45RO Fc Chimera Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 114-132 kDa and 228-264 kDa, respectively.

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