

Recombinant Human PTPRC Protein, Gln26-Lys416, C-His-Avi tagged, Biotinylated

Cat. No. PTPRC-050H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CD45/PTPRC-C-His-Avi protein was developed from HEK293 and has a target region of C-His-Avi.
Species	Human
Source	HEK293
ProteinLength	Gln26-Lys416
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.
Conjugation/Label	Biotin

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Form	Lyophilised
Endotoxin	Endotoxin level was found to be less than 0.1 ng/μg (1 EU/μg).
Notes	FOR RESEARCH USE ONLY (RUO).
Storage	The lyophilized protein is stable for at least 1 year from date of receipt at -20 centigrade.
Storage Buffer	Lyophilised from 0.2 μm filtered PBS solution pH 7.4. Upon receipt centrifuge vial to ensure maximal product extraction, recommended: 20 sec, 5K RPM
Conjugation	Biotin

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; 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

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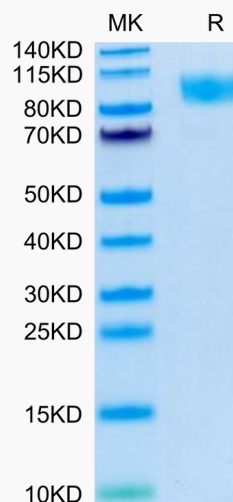
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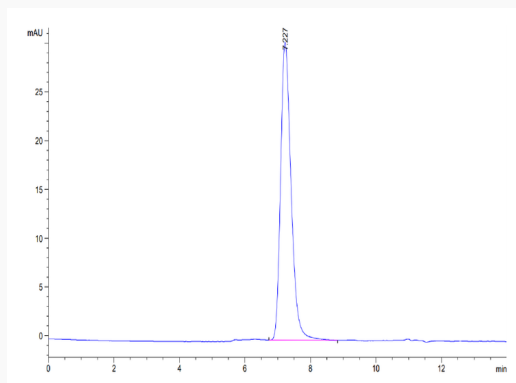
MIM 151460

UniProt ID P08575

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



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



Immobilized Anti-CD45Antibody at 2 µg/mL (100 µL/Well)

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on the plate. Dose
response curve for
Biotinylated Human
CD45, His Tag with
the EC50 of 0.16
µg/mL determined by
ELISA.

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