

## Recombinant Human CD45, GST-tagged

Cat. No. CD45-10957H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human CD45 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 550-750a.a.

**Description** The protein encoded by this gene is a receptor for C-C type chemokines. It belongs to family 1 of the G protein-coupled receptors. This receptor binds and responds to a variety of chemokines, including eotaxin (CCL11), eotaxin-3 (CCL26), MCP-3 (CCL7), MCP-4 (CCL13), and RANTES (CCL5). It is highly expressed in eosinophils and basophils, and is also detected in TH1 and TH2 cells, as well as in airway epithelial cells. This receptor may contribute to the accumulation and activation of eosinophils and other inflammatory cells in the allergic airway. It is also known to be an entry co-receptor for HIV-1. This gene and seven other chemokine receptor genes form a chemokine receptor gene cluster on the chromosomal region 3p21. Alternatively spliced transcript variants have been described.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	PTPRC protein tyrosine phosphatase, receptor type, C [ Homo sapiens ]
<b>Official Symbol</b>	PTPRC
<b>Synonyms</b>	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;
<b>Gene ID</b>	5788
<b>mRNA Refseq</b>	NM_002838
<b>Protein Refseq</b>	NP_002829
<b>MIM</b>	151460
<b>UniProt ID</b>	P08575
<b>Chromosome Location</b>	1q31-q32
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; BCR signaling pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;

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**Function**

hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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