

Rabbit Anti-CD45 antibody

SL4819R

Product Name:	CD45
Chinese Name:	白细胞共同抗原抗体
Alias:	B220; CD 45; CD45; cd45 antigen; ec3.1.3.48; CD45R; GP180; GP180; GP 180; L CA; LCA; L-CA; Leukocyte common antigen; LY5; Protein tyrosine phosphatase receptor type C; Protein tyrosine phosphatase receptor type c polypeptide; protein tyrosine phosphatase, receptor type, C; Receptor-type tyrosine-protein phosphatase C; PTPRC; PTPRC_HUMAN; SCID due to PTPRC deficiency; T200; T200 glycoprotein; T200 leukocyte common antigen; Human homolog of severe combined immunodeficiency due to PTPRC deficiency.
	Specific References(3) SL4819R has been referenced in 3 publications.
	[IF=3.83] Lei, Yu, et al. "Expression and distribution of immunoglobulin G in the normal liver, hepatocarcinoma and postpartial hepatectomy liver." Laboratory
	Investigation (2014).IHC-P;Rat.
文献引用 Pub ^l ∭ed ∶	PubMed:25264708
	[IF=3.23]Kuang, Chun-yan, et al. "Schlafen 1 Inhibits the Proliferation and Tube
	Formation of Endothelial Progenitor Cells." PLOS ONE 9.10 (2014):
	e109711.FCM;Rat.
	<u>PubMed:25329797</u>
	[IF=1.64]Naderi-Meshkin, Hojjat, et al. "Injectable hydrogel delivery plus
	preconditioning of mesenchymal stem cells: exploitation of SDF-1/CXCR4 axis towards
	enhancing the efficacy of stem cells homing." Cell Biology International
	(2015).FCM;Rat.
	PubMed:25825165
Organism Species:	Rabbit

Clonality: React Species: Applications: Molecular weight: Cellular localization: Form: Concentration: immunogen: Lsotype: Purification: Storage Buffer: Storage: PubMed:	Polyclonal Human,Mouse,Rat, WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow- Cyt=1µg/TestICC=1:100-500IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. 137kDa The cell membrane Lyophilized or Liquid 1mg/ml KLH conjugated synthetic peptide derived from rat CD45/B220:501- 600/1273 <extracellular> IgG affinity purified by Protein A 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.</extracellular>
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PubMed:	
	PubMed
	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, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. 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 signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jul 2008].
Product Detail:	 Function: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity. Subunit: Binds GANAB and PRKCSH. Interacts with SKAP1. Interacts with DPP4; the interaction is enhanced in a interleukin-12-dependent manner in activated lymphocytes. Subcellular Location:

Membrane; Single-pass type I membrane protein. Membrane raft. Note=Colocalized with DPP4 in membrane rafts.

Post-translational modifications:

Heavily N- and O-glycosylated.

DISEASE:

Defects in PTPRC are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)B(+)NK(+) SCID) [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Genetic variations in PTPRC are involved in multiple sclerosis susceptibility (MS) [MIM:126200]. MS is a neurodegenerative disorder characterized by the gradual accumulation of focal plaques of demyelination particularly in the periventricular areas of the brain. Peripheral nerves are not affected. Onset usually in third or fourth decade with intermittent progression over an extended period. The cause is still uncertain.

Similarity:

Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.

SWISS:

P04157

Gene ID: 24699

Database links:

Entrez Gene: 5788Human

Entrez Gene: 19264Mouse

Entrez Gene: 24699Rat

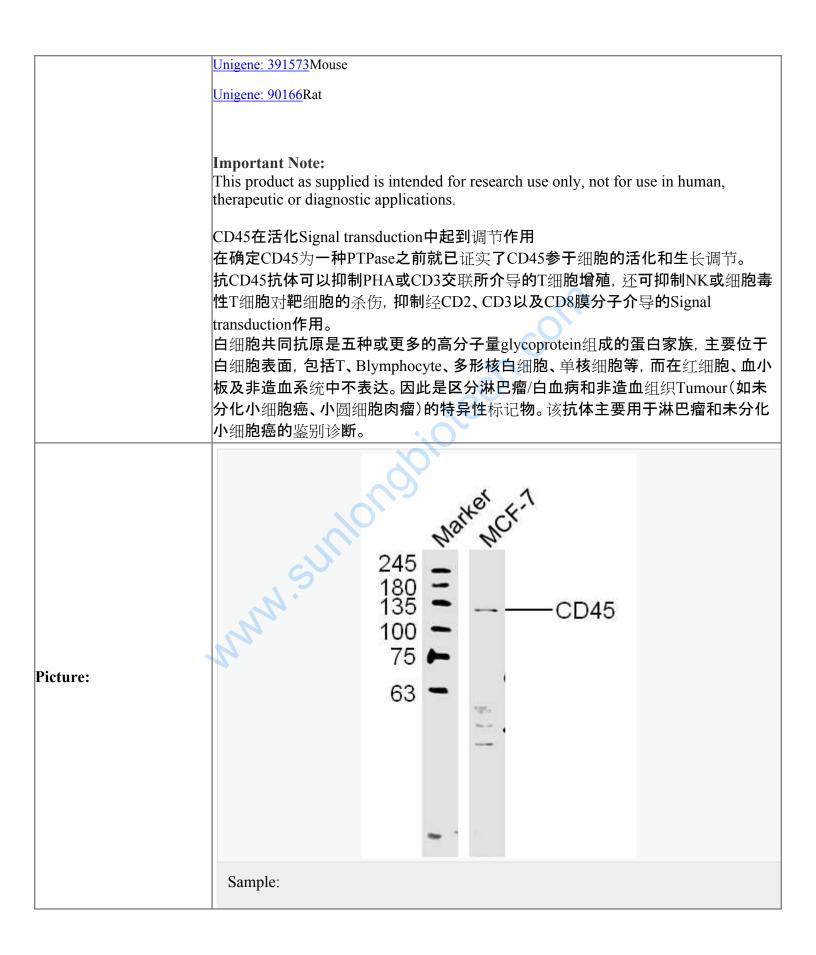
Omim: 151460Human

SwissProt: P08575Human

SwissProt: P06800Mouse

SwissProt: P04157Rat

Unigene: 654514Human



MCF-7 (Human) Lysate at 40 ug

Primary: Anti-CD45 (SL4819R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 137 kD

Observed band size: 130 kD

