

Product datasheet for **TA506054AM**

CD45 (PTPRC) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B7
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:200~8000, IHC 1:150, FLOW 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PTPRC(NP_002829) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	147.1 kDa
Gene Name:	protein tyrosine phosphatase receptor type C
Database Link:	NP_002829 Entrez Gene 5788 Human P08575



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Background:

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. [provided by RefSeq, Jun 2012]

Synonyms:

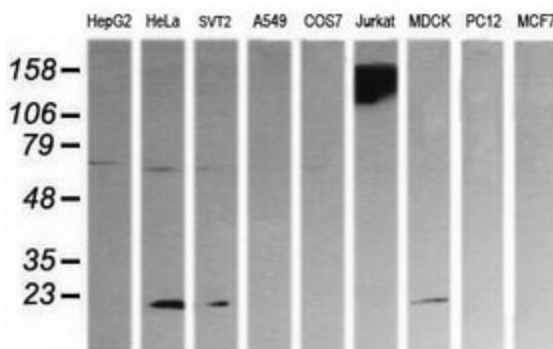
B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200

Protein Families:

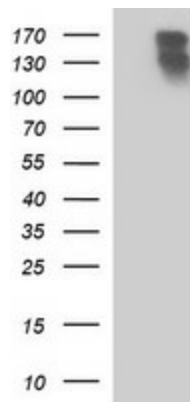
Druggable Genome, ES Cell Differentiation/IPS, Phosphatase, Transmembrane

Protein Pathways:

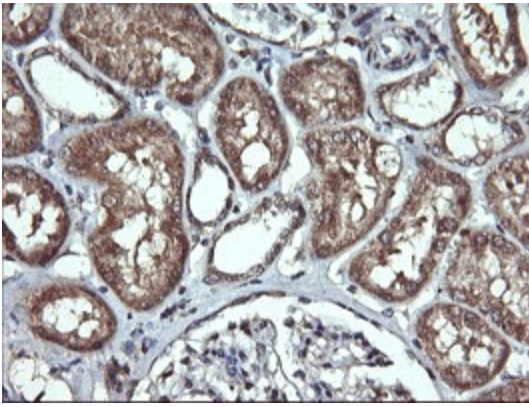
Cell adhesion molecules (CAMs), Fc gamma R-mediated phagocytosis, Primary immunodeficiency, T cell receptor signaling pathway

Product images:


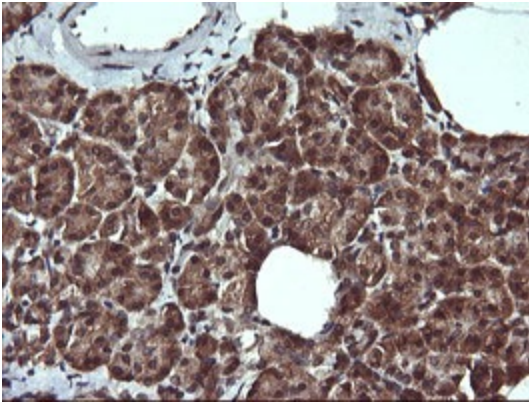
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PTPRC monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



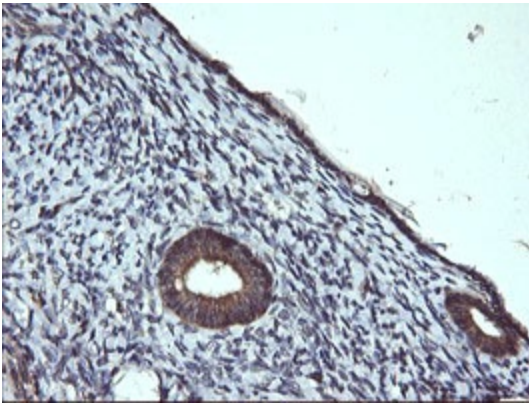
HEK293T cells lysate (5 ug, left lane) and full length human recombinant protein of human PTPRC (NP_002829) produced in HEK293T cell (5 ug, right lane) were separated by SDS-PAGE and immunoblotted with anti-PTPRC.



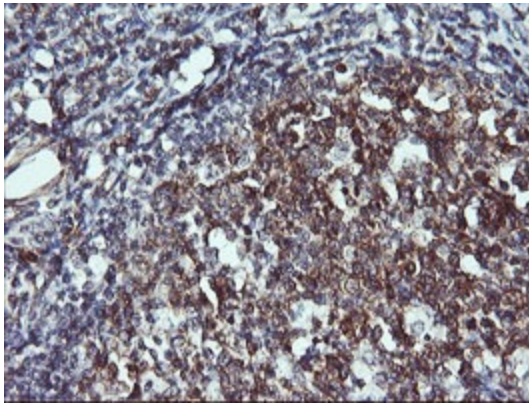
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PTPRC mouse monoclonal antibody. ([TA506054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



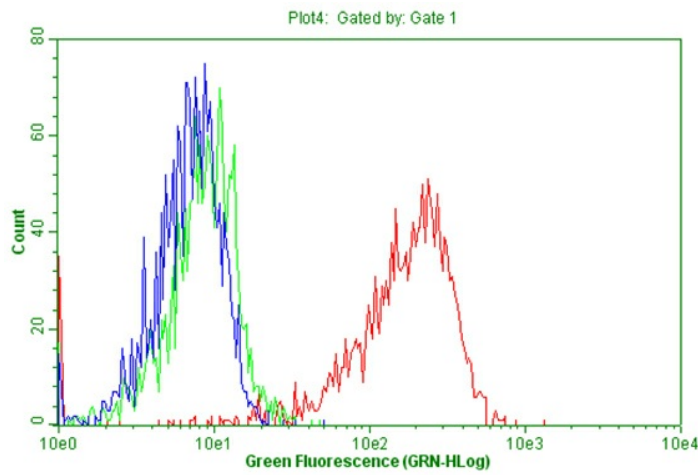
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PTPRC mouse monoclonal antibody. ([TA506054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PTPRC mouse monoclonal antibody. ([TA506054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-PTPRC mouse monoclonal antibody. ([TA506054]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Flow cytometric Analysis of living Jurkat cells, using anti-PTPRC antibody ([TA506054]), (Red), compared to IgG isotype control, (green) and PBS, (blue).