OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA506046

CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: OTI2E7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2E7
Applications:	FC, IF, IHC, WB
Recommend Dilution:	WB 1:400~4000, IHC 1:500, IF 1:100, 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:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	147.1 kDa
Gene Name:	protein tyrosine phosphatase receptor type C
Database Link:	NP_002829 Entrez Gene 5788 Human
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]

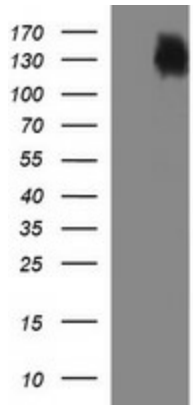
View online »

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

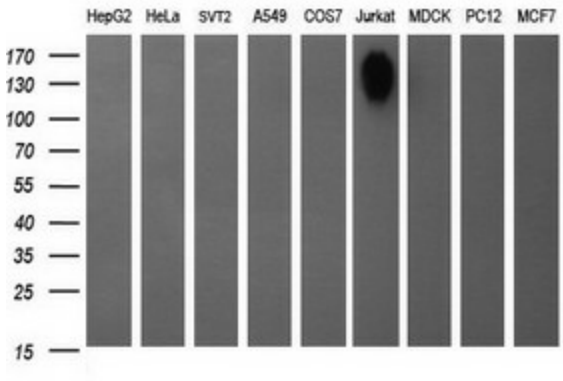
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Phosphatase, Transmembrane

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

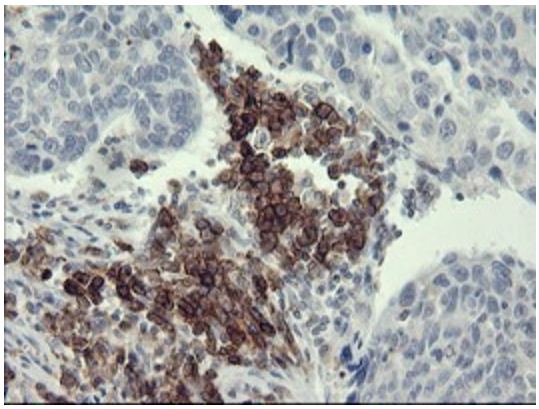
Product images:



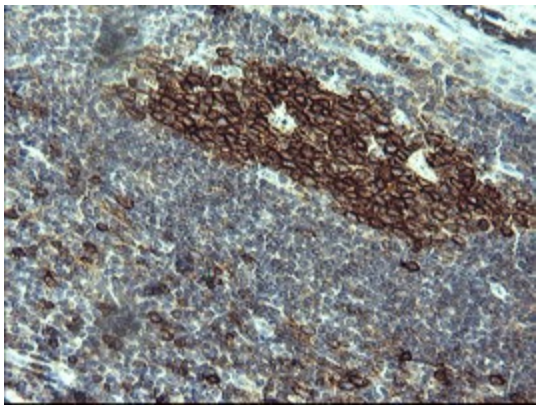
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PTPRC ([RC216590], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTPRC. Positive lysates [LY401003] (100ug) and [LC401003] (20ug) can be purchased separately from OriGene.



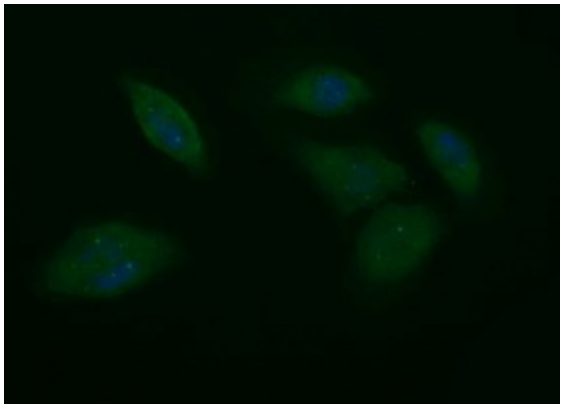
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PTPRC monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



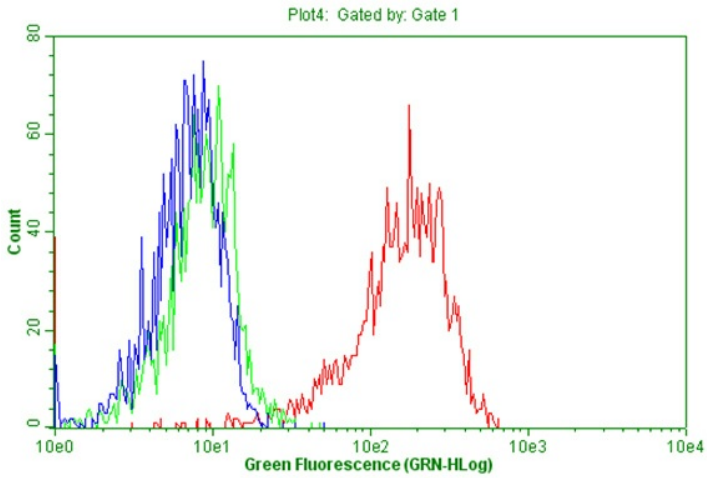
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-PTPRC mouse monoclonal antibody. (TA506046; heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-PTPRC mouse monoclonal antibody. (TA506046; heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunofluorescent staining of HeLa cells using anti-PTPRC mouse monoclonal antibody (TA506046).



Flow cytometric Analysis of living Jurkat cells, using anti-PTPRC antibody (TA506046), (Red), compared to IgG isotype control, (green) and PBS, (blue).