

## Basic Information

<b>Product Name</b>	Anti-CD45/PTPRC Antibody (Clone#OTI1H2)
<b>Gene Name</b>	PTPRC
<b>Source</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Species Reactivity</b>	human
<b>Tested Application</b>	FCM, WB
<b>Contents</b>	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Immunogen</b>	Full length human recombinant protein of human PTPRC(NP_002829) produced in HEK293T cell.
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Observed MW</b>	147.1 kDa
<b>Dilution Ratios</b>	Western blot (WB): 1:200~8000 Flow cytometry (FCM):1:50

## Storage

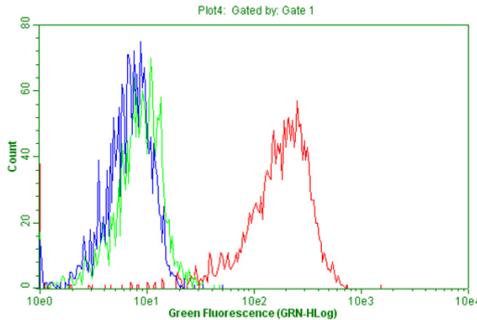
Stable for 12 months from date of receipt. Store at -20°C as received.

## Background Information

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]

## Selected Validation Data



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

170 —  
130 —  
100 —  
70 —  
55 —  
40 —  
35 —  
25 —  
15 —  
10 —



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