

PTPRC Conjugated Antibody

Catalog No: #C32607

Package Size: #C32607-AF350 100ul #C32607-AF405 100ul #C32607-AF488 100ul #C32607-AF555 100ul #C32607-AF594 100ul
 #C32607-AF647 100ul #C32607-AF680 100ul #C32607-AF750 100ul #C32607-Biotin 100ul #C32607-Conjugated 50ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	PTPRC Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB, IF
Species Reactivity	Hu Rt Ms
Specificity	The antibody detects endogenous level of total PTPRC protein.
Immunogen Description	A synthetic peptide of human PTPRC.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	B220;CD45;CD45R;GP180;LCA
Accession No.	Swiss-Prot#:P08575NCBI Gene ID:5788
Calculated MW	147
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

WB: 1:50-1:200

IF:1:50-1:200

Product Description

Antibodies were purified by affinity purification using immunogen.

Background

The protein phosphatase (PTP) receptor CD45 is a type I transmembrane protein comprised of a pair of intracellular tyrosine phosphatase domains and a variable extracellular domain generated by alternative splicing (1). The catalytic activity of CD45 is a function of the first phosphatase domain (D1) while the second phosphatase domain (D2) may interact with and stabilize the first domain, or recruit/bind substrates (2,3). CD45 interacts directly with antigen receptor complex proteins or activates Src family kinases involved in the regulation of T- and B-cell antigen receptor signaling (1). Specifically, CD45 dephosphorylates Src-family kinases Lck and Fyn at their conserved negative regulatory carboxy-terminal tyrosine residues and upregulates kinase activity. Conversely, studies indicate that CD45 can also inhibit Lck and Fyn by dephosphorylating their positive regulatory autophosphorylation site. CD45 appears to be both a positive and a negative regulator that conducts signals depending on specific stimuli and cell type (1). Human leukocytes including lymphocytes, eosinophils, monocytes, basophils and neutrophils express CD45, while erythrocytes and platelets are negative for CD45 expression (4).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.