

Datasheet for ABIN655654
anti-CD45 antibody (AA 336-364)



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3 Images

Overview

Quantity:	400 µL
Target:	CD45 (PTPRC)
Binding Specificity:	AA 336-364
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB)

Product Details

Immunogen:	This PTPRC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-364 amino acids of human PTPRC.
Clone:	RB20781
Isotype:	IgG
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	PTPRC (PTPRC Products)
Background:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP)

Target Details

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 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. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq].

Molecular Weight:	147486
Gene ID:	5788
NCBI Accession:	NP_002829 , NP_563578
UniProt:	P08575
Pathways:	TCR Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , CXCR4-mediated Signaling Events , BCR Signaling

Application Details

Application Notes:	WB: 1:1000. FC: 1:10~50
Restrictions:	For Research Use only

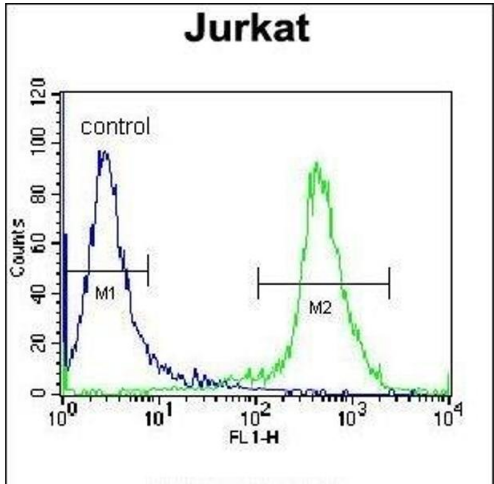
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small

aliquots to prevent freeze-thaw cycles.

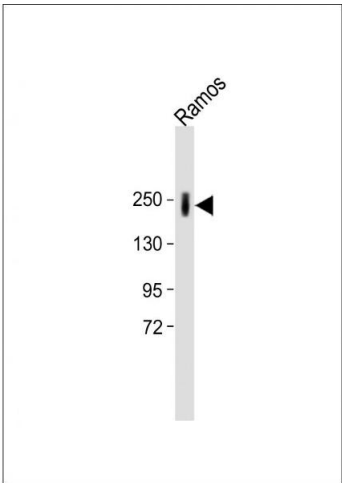
Expiry Date: 6 months

Images



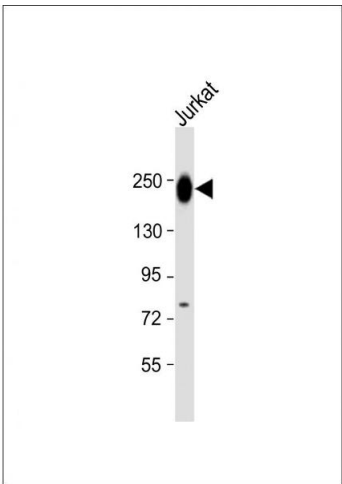
Flow Cytometry

Image 1. PTPRC Antibody (N-term) (ABIN655654 and ABIN2845128) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. All lanes : Anti-PTPRC Antibody (N-term) at 1:2000 dilution Lane 1: Ramos cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (AS) at 1/15000 dilution. Observed band size : 180 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. Anti-PTPRC Antibody (N-term) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 147 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.