

Datasheet for ABIN6146454
anti-CD45 antibody (AA 1057-1306)



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4 Images

Overview

Quantity:	100 µL
Target:	CD45 (PTPRC)
Binding Specificity:	AA 1057-1306
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1057-1306 of human CD45 (NP_002829.3).
Sequence:	VIVMLTELKH GDQEICAQYW GEGKQTYGDI EVDLKDTDKS STYTLRVFEL RHSKRKDSRT VYQYQYTNWS VEQLPAEPKE LISMIQVVKQ KLPQKNSSEG NKHHKSTPLL IHCRDGSQQT GIFCALLNLL ESAETEEVVD IFQVVKALRK ARPGMVSTFE QQFLYDVIA STYPAQNGQV KKNNHQEDKI EFDNEVDKVK QDANCVNPLG APEKLPEAKE QAEGSEPTSG TEGPEHSVNG PASPALNQGS
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

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) 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.,B220,CD45,CD45R,GP180,L-CA,LCA,LY5,T200,PTPRC,Signal Transduction,Kinase,Tyrosine kinases,Cell Biology & Developmental Biology,Apoptosis,Immunology & Inflammation,CD markers,B Cell Receptor Signaling Pathway,T Cell Receptor Signaling Pathway,Neuroscience,Cell Type Marker,Stem Cells,Hematopoietic Progenitors,Microglia marker,PTPRC
Molecular Weight:	130 kDa/147 kDa
Gene ID:	5788
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,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

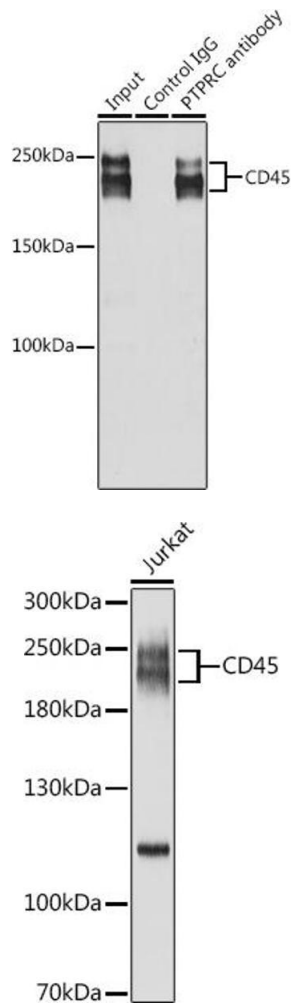
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images

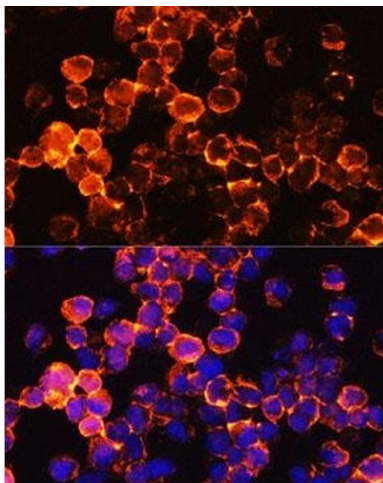


Immunoprecipitation

Image 1. Immunoprecipitation analysis of 200 µg extracts of Jurkat cells using 3 µg CD45 antibody (ABIN6130077, ABIN6146454, ABIN6146456 and ABIN6213826). Western blot was performed from the immunoprecipitate using CD45 antibody (ABIN6130077, ABIN6146454, ABIN6146456 and ABIN6213826) at a dilution of 1:1000.

Western Blotting

Image 2. Western blot analysis of extracts of Jurkat cells, using CD45 antibody (ABIN6130077, ABIN6146454, ABIN6146456 and ABIN6213826) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Immunofluorescence

Image 3. Immunofluorescence analysis of Jurkat cells using CD45 Rabbit pAb (ABIN6130077, ABIN6146454, ABIN6146456 and ABIN6213826) at dilution of 1:100. Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6146454.