

CD45 Rabbit pAb

Catalog No.: A0372 **1 Publications**

Basic Information

Observed MW

200-250 kDa

Calculated MW

147 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IF-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB	1:500 - 1:5000
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
IF/ICC	1:50 - 1:200
IF-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID

5788

Swiss Prot

P08575

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180; IMD105

Product Information

Source

Rabbit

Isotype

IgG

Purification

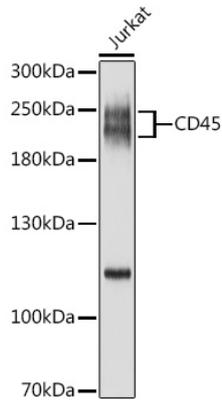
Affinity purification

Storage

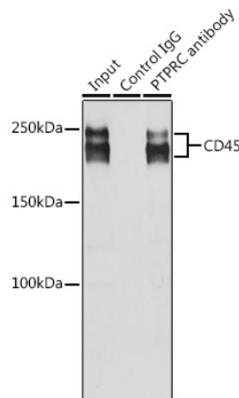
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

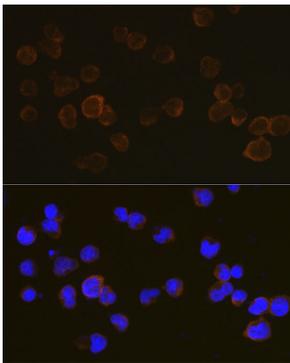
Validation Data



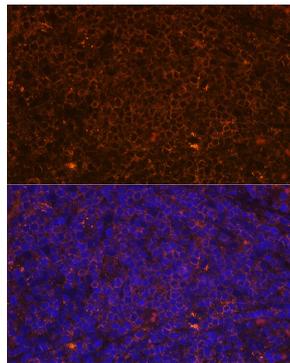
Western blot analysis of lysates from Jurkat cells, using CD45 Rabbit pAb (A0372) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



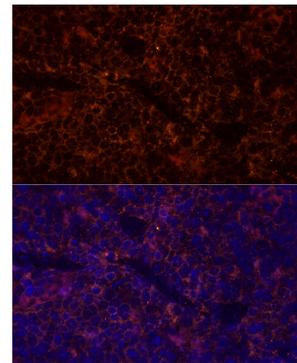
Immunoprecipitation analysis of 200 µg extracts of Jurkat cells using 3 µg CD45 Rabbit pAb (A0372). Western blot was performed from the immunoprecipitate using CD45 Rabbit pAb (A0372) at a dilution of 1:1000.



Immunofluorescence analysis of Jurkat cells using CD45 Rabbit pAb (A0372) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of paraffin-embedded rat spleen using CD45 Rabbit pAb (A0372) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of paraffin-embedded mouse spleen using CD45 Rabbit pAb (A0372) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.