

Product datasheet for **TA380542**

CD45 (PTPRC) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IP, WB
Recommended Dilution:	WB,1:500 - 1:2000 IF,1:50 - 1:200 IP,1:50 - 1:200
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1057-1306 of human CD45 (NP_002829.3).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	130kDa/147kDa
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	Entrez Gene 5788 Human P08575



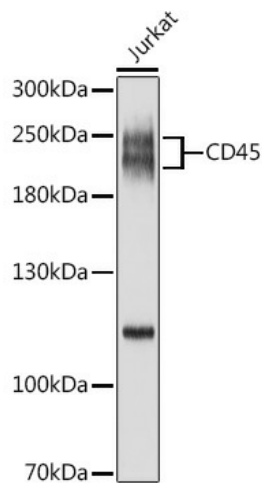
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Background:

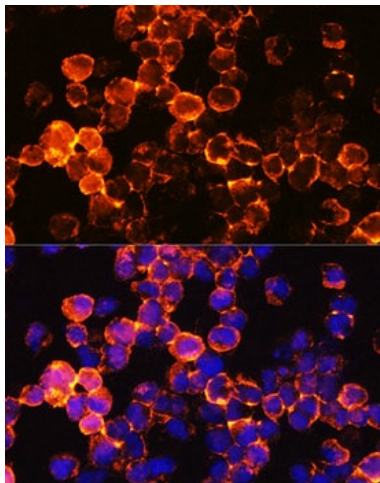
The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, 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.

Synonyms:

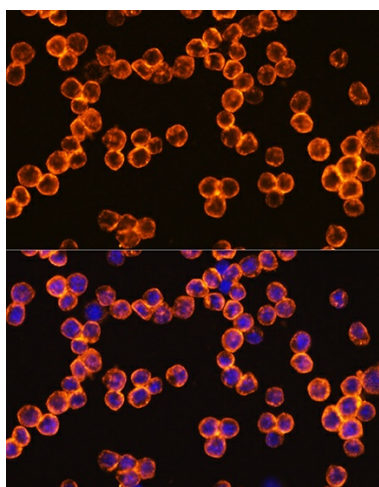
B220; CD45; CD45R; glycoprotein; GP180; L-CA; LCA; LY5; T200

Product images:

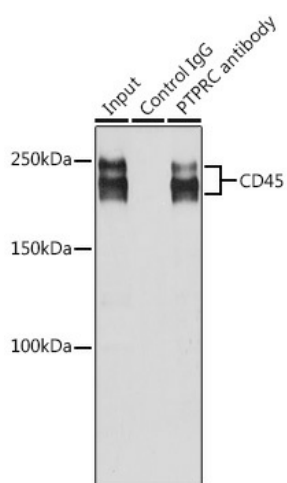
Western blot analysis of extracts of Jurkat cells, using CD45 antibody (TA380542) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 1s.



Immunofluorescence analysis of Jurkat cells using CD45 Rabbit pAb (TA380542) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of RAW264.7 cells using CD45 Rabbit pAb (TA380542) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of Jurkat cells using 3ug CD45 antibody (TA380542). Western blot was performed from the immunoprecipitate using CD45 antibody (TA380542) at a dilution of 1:1000.