

Anti-CD45 Polyclonal Antibody 2

Product Details

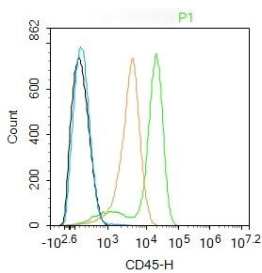
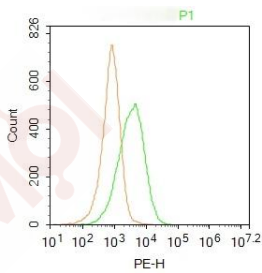
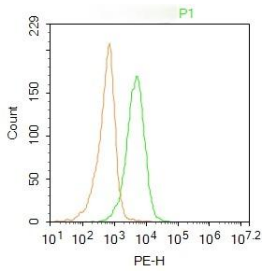
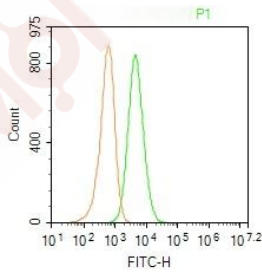
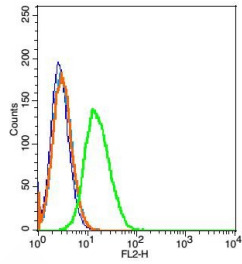
Ig Type:	IgG
Reactivity:	Human (predicted:Rat,Mouse)
Molecular Weight:	Theoretical: 137 kDa.
Purification:	Protein A purified

Applications

- Blank control: Raji (blue). Primary Antibody: Rabbit Anti-CD45 antibody (TMAB-00374), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-Pe (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.
- Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-CD45/PTPRC/FITC Conjugated antibody (TMAB-00374-FITC)
Dilution: 1 μ g/10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG-FITC.
Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were stained with Primary Antibody for 30 min at room temperature.
- Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-CD45 antibody (TMAB-00374)
Dilution: 2 μ g/10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-PE
Dilution: 1 μ g/test.
Protocol
The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
- Blank control: Jurkat.
Primary Antibody (green line): Rabbit Anti-CD45 antibody (TMAB-00374)
Dilution: 2 μ g/10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-PE
Dilution: 1 μ g/test.
Protocol
The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
- Blank control: U937. Primary Antibody (green line): Rabbit Anti-CD45 antibody (TMAB-00374)
Dilution: 1 μ g/Test;
Secondary Antibody: Goat anti-rabbit IgG-AF488
Dilution: 0.5 μ g/Test.
Protocol
The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min

Verified Activity:

at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.



Application: FCM

Recommended FCM: 1µg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: rat CD45/B220

Antigen Species: Rat

Gene ID: 24699

Uniprot ID: P04157

Synonyms: GP180;CD45;T200;LCA;B220;LY5;L-CA;PTPRC;CD45R;EC 3.1.3.48

Biology Area: Endothelial Cell Markers,CD,Regulatory T Cells,CD,Non-lineage,Microglia marker,Tyrosine Phosphatases,B Lymphocytic Lineage,NK Cell Lineage,T Lymphocytic Lineage,Dendritic Cell Lineage,Mast Cell Lineage,Monocytic Lineage,Neutrophil Lineage,Surface Molecules

Research 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, 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

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