

CD45RB Rabbit mAb

Catalog No.: A25011 Recombinant

Basic Information

Observed MW

200-250kDa

Calculated MW

135kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,FC,ELISA

Cross-Reactivity

Human

CloneNo number

ARC65145

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 1:1000 - 1:5000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

FC 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

5788

Swiss Prot

P08575-9

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 26-463 of human CD45RB (XP_006711537.1).

Synonyms

LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180; IMD105; CD45RB

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

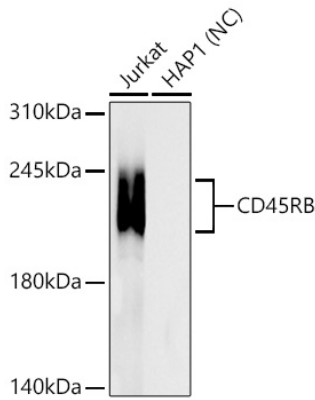
Affinity purification

Storage

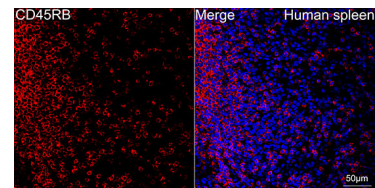
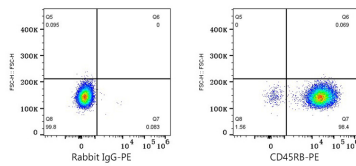
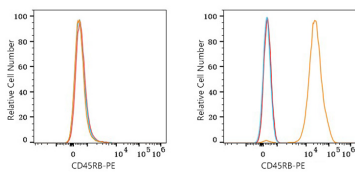
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



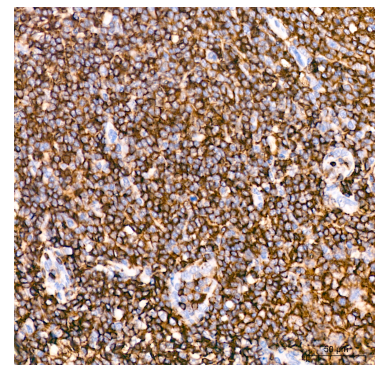
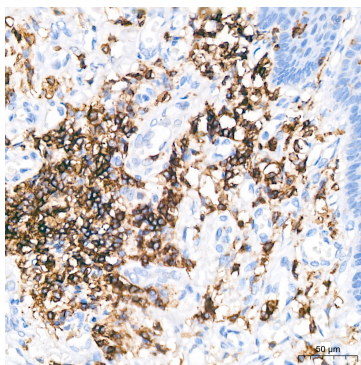
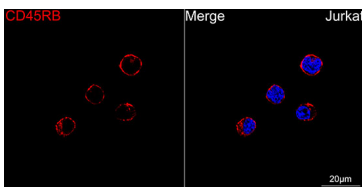
Western blot analysis of various lysates using CD45RB Rabbit mAb (A25011) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): HAP1. Exposure time: 90s.



Flow cytometry: 1×10^6 HAP1 cells (negative control, left) and MOLT-4 cells (right) were surface-stained with CD45RB Rabbit mAb (A25011, 2 µg/mL, orange line) or Rabbit IgG isotype control (AC042, 2 µg/mL, blue line), followed by PE Donkey anti-Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1×10^6 MOLT-4 cells were surface-stained with Rabbit IgG isotype control (AC042, 2 µg/mL, left) or CD45RB Rabbit mAb (A25011, 2 µg/mL, right), followed by PE Donkey anti-Rabbit pAb staining.

Confocal imaging of paraffin-embedded Human spleen tissue using CD45RB Rabbit mAb (A25011, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of Jurkat cells using CD45RB Rabbit mAb (A25011, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x.

Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using CD45RB Rabbit mAb (A25011) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD45RB Rabbit mAb (A25011) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.