A25011

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CD45RB Rabbit mAb

Catalog No.: A25011 Recombinant

Basic Information

Observed MW
200-250kDa

Calculated MW
135kDa

Category
SMab Recombinant Monoclonal 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	1:2000 - 1:8000
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 protein (or fragment).This information is considered to be commercially sensitive.

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

Product Information

Source
Rabbit

Isotype
IgG

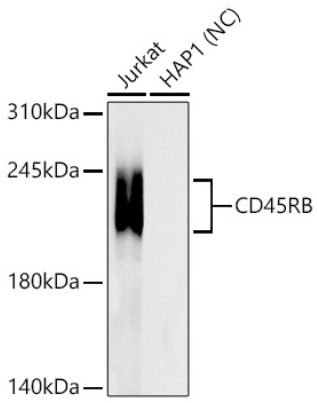
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

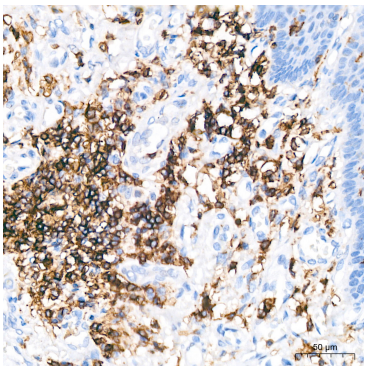
Contact

www.abclonal.com

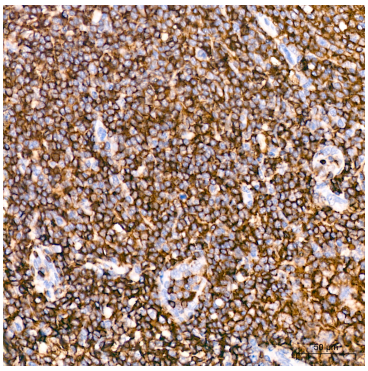
Validation Data



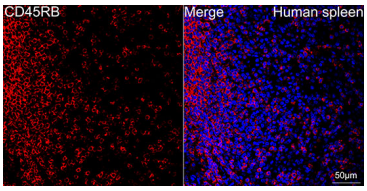
Western blot analysis of various lysates using CD45RB Rabbit mAb (A25011) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative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



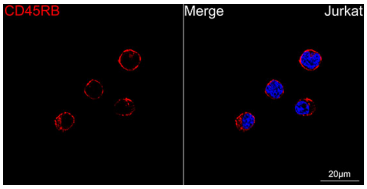
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using CD45RB Rabbit mAb (A25011) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



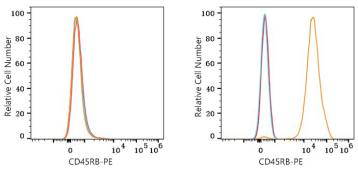
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD45RB Rabbit mAb (A25011) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



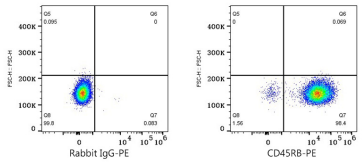
Confocal imaging of paraffin-embedded Human spleen tissue using CD45RB Rabbit mAb (A25011, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M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



Flow cytometry: 1X10^6 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-



Flow cytometry: 1X10^6 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.

Validation Data

Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).