CD45 Rabbit mAb

Catalog NO.: A23503 Recombinant 1 Publications

Basic Information

Observed MW
180-250kDa

Calculated MW
147kDa

Category
Monoclonal Antibodies

Applications
WB, IHC-P, mIHC, ELISA

Cross-Reactivity
Human

Conjugation
Unconjugated

Clone number
ARC52280

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	1:100 - 1:500
IHC-P	1:5000 - 1:20000
mIHC	1:5000 - 1:20000

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

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

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

Contact

Product Information

order@abclonal.com
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www.abclonal.com

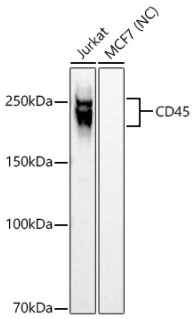
Source
Rabbit

Isotype
IgG

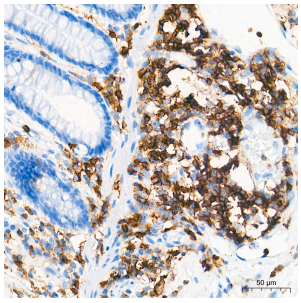
Purification
Affinity purification

Storage
Store at -20°C. 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.

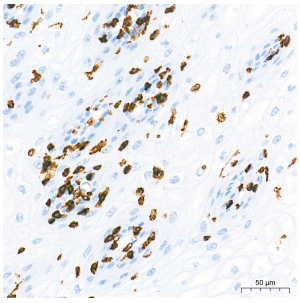
Validation Data



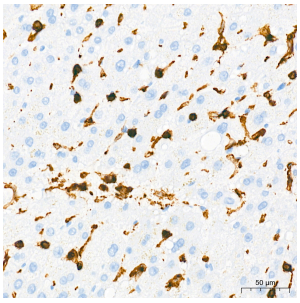
Western blot analysis of various lysates, using CD45 Rabbit mAb (A23503) at 1:500 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC):MCF7
Exposure time: 1s.



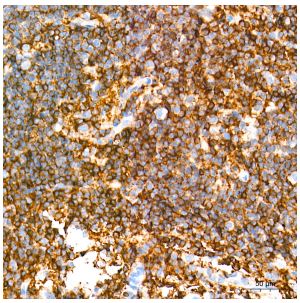
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using CD45 Rabbit mAb (A23503) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

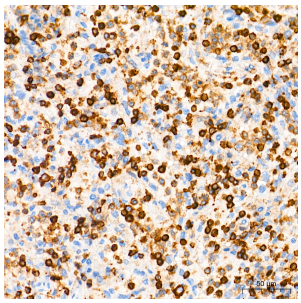


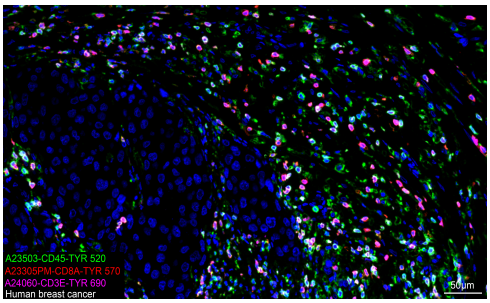
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using CD45 Rabbit mAb (A23503) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver tissue using CD45 Rabbit mAb (A23503) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.







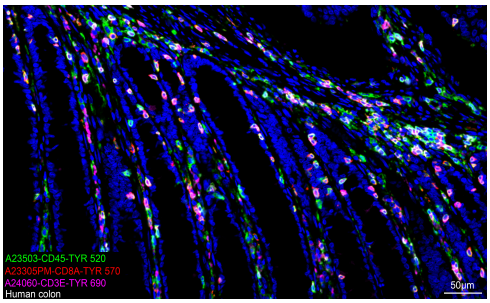
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD45 Rabbit mAb (A23503) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using CD45 Rabbit mAb (A23503) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

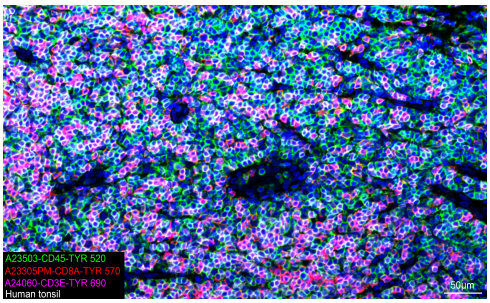
The multiplex IHC analysis on paraffin-embedded Human breast cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit mAb (A23503, 1:5000) with TSA-TYR-520 (Green), CD8A Rabbit mAb (A23305PM, 1:1000) with TSA-TYR-570 (Red), and CD3E Rabbit mAb (A24060, 1:200) with TSA-TYR-690 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.

Antibody | Protein | ELISA Kit | Enzyme | NGS | Service
For research use only. Not for therapeutic or diagnostic purposes.
Report any suspected counterfeit or unauthorized products.

Validation Data



The multiplex IHC analysis on paraffin-embedded Human colon tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit mAb (A23503, 1:5000) with TSA-TYR-520 (Green), CD8A Rabbit mAb (A23305PM, 1:1000) with TSA-TYR-570 (Red), and CD3E Rabbit mAb (A24060, 1:200) with TSA-TYR-690 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.



The multiplex IHC analysis on paraffin-embedded Human tonsil tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CD45 Rabbit mAb (A23503, 1:5000) with TSA-TYR-520 (Green), CD8A Rabbit mAb (A23305PM, 1:1000) with TSA-TYR-570 (Red), and CD3E Rabbit mAb (A24060, 1:200) with TSA-TYR-690 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.

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