A23549

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CD45 Rabbit mAb

Catalog No.: A23549 Recombinant 3 Publications

Basic Information

Observed MW
180-250kDa

Calculated MW
145KDa

Category
Monoclonal Antibody

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

Cross-Reactivity
Mouse

CloneNo number
ARC60962

Background

Enables several functions, including heparan sulfate proteoglycan binding activity; heparin binding activity; and protein tyrosine phosphatase activity. Involved in several processes, including lymphocyte differentiation; positive regulation of macromolecule metabolic process; and regulation of signal transduction. Acts upstream of or within several processes, including lymphocyte differentiation; positive regulation of lymphocyte activation; and regulation of protein phosphorylation. Located in external side of plasma membrane; focal adhesion; and membrane raft. Is expressed in several structures, including 3rd branchial arch; alimentary system; cardiovascular system; hemolymphoid system; and placenta. Used to study systemic lupus erythematosus. Human ortholog(s) of this gene implicated in hepatitis C; multiple sclerosis; severe combined immunodeficiency; and severe combined immunodeficiency, autosomal recessive, T cell-negative, B cell-positive, Nk cell-positive. Orthologous to human PTPRC (protein tyrosine phosphatase receptor type C).

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:200 - 1:800
IF	1:100 - 1:800
FC	1:100 - 1:500
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
19264

Swiss Prot
P06800

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

Synonyms
loc; B220; Cd45; L-CA; Ly-5; T200; CD45R; Lyt-4; CD45

Product Information

Source
Rabbit

Isotype
IgG

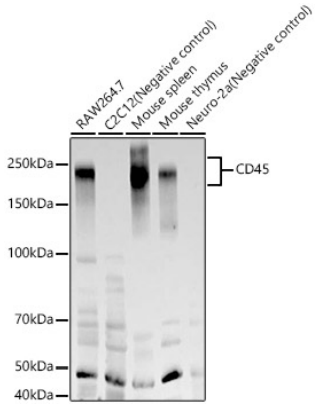
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

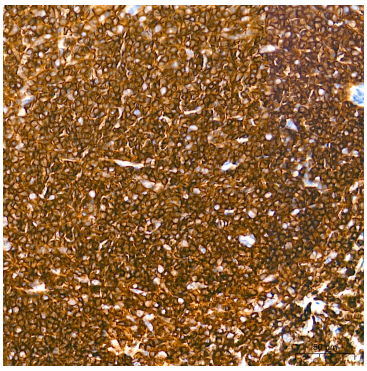
Contact

www.abclonal.com

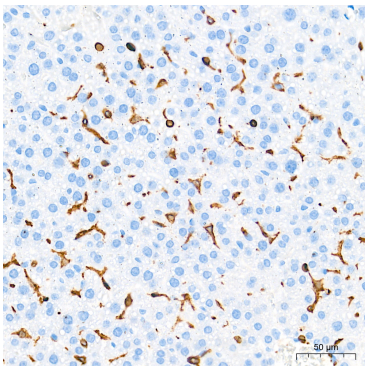
Validation Data



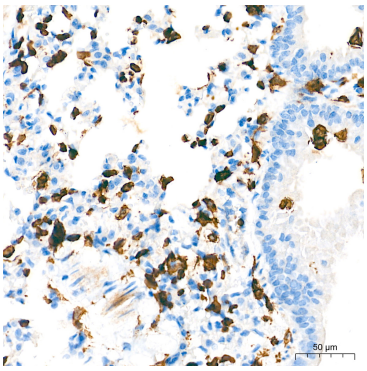
Western blot analysis of various lysates, using CD45 Rabbit mAb (A23549) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 120s.



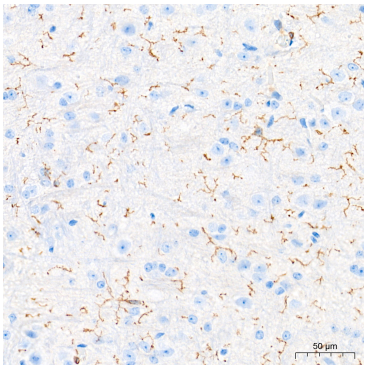
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using CD45 Rabbit mAb (A23549) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



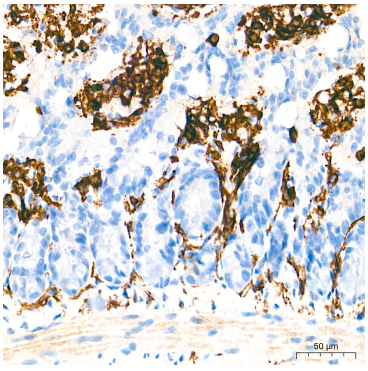
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using CD45 Rabbit mAb (A23549) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



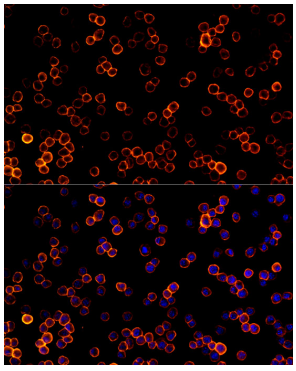
Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using CD45 Rabbit mAb (A23549) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using CD45 Rabbit mAb (A23549) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

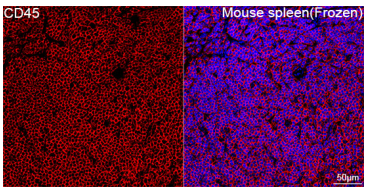


Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using CD45 Rabbit mAb (A23549) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

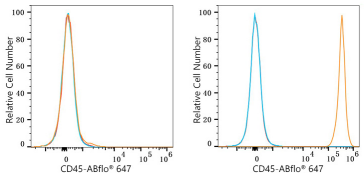


Immunofluorescence analysis of RAW264.7 cells using CD45 Rabbit mAb (A23549) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

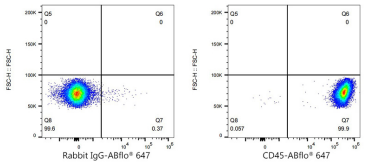
Validation Data



Confocal imaging of frozen sections Mouse spleen tissue using CD45 Rabbit mAb (A23549, 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). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Flow cytometry: 1X10^6 C2C12 cells (negative control,left) and C57BL/6 mouse Splenocytes (right) were surface-stained with CD45 Rabbit mAb (A23549,2 μg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 μl/Test,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 C57BL/6 mouse Splenocytes were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 μl/Test,left) or CD45 Rabbit mAb (A23549,2 μg/mL,right).