

CD45 Rabbit mAb

Catalog No.: A23549 **Recombinant** **1 Publications**

Basic Information

Observed MW

180-250kDa

Calculated MW

145kDa

Category

Primary 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 fusion protein containing a sequence corresponding to amino acids 26-566 of mouse CD45 (NP_001104786.2)

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

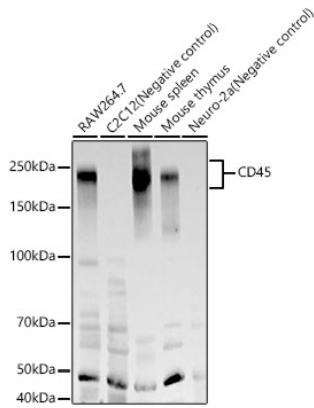
Affinity purification

Storage

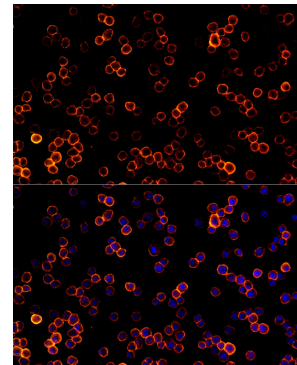
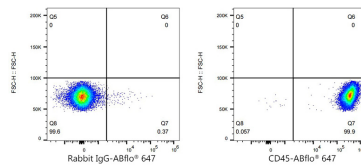
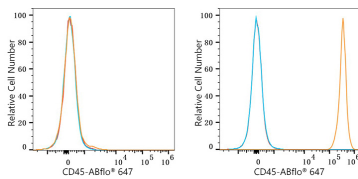
Store at -20°C. Avoid freeze / thaw cycles.

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

Validation Data



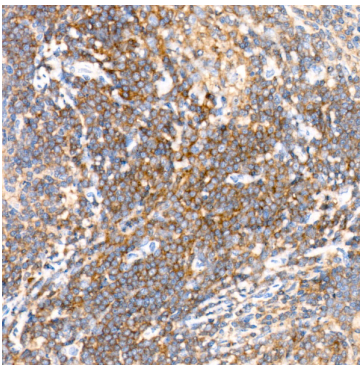
Western blot analysis of various lysates, using CD45 Rabbit mAb (A23549) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021).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



Flow cytometry: 1×10^6 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: 1×10^6 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).

Immunofluorescence analysis of RAW2647 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.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen using CD45 Rabbit mAb (A23549) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.