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CD45 Rabbit mAb

Catalog No.: A23549 Recombinant 1 Publications

Basic Information

Observed MW
180-250kDa

Calculated MW
145KDa

Category
Primary antibody

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

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	1:50 - 1:200
IF	1:50 - 1:200
FC	1:100 - 1:500

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

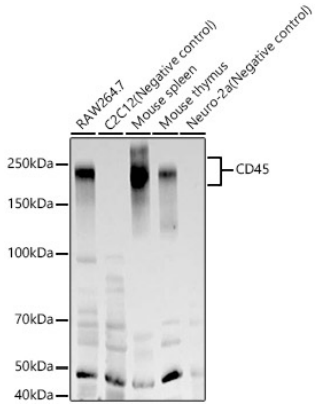
Source
Rabbit

Isotype
IgG

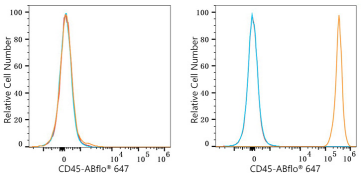
Purification
Affinity purification

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

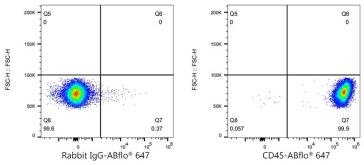
Validation Data



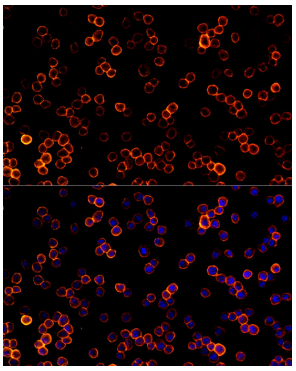
Western blot analysis of various lysates, using CD45 Rabbit mAb (A23549) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: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



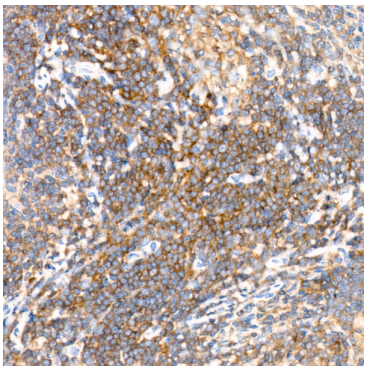
Flow cytometry: 1X10^6 C2C12 cells (negative control,left) and C57BL/6 mouse Splenocytes (right) were surface-stained with CD45 Rabbit mAb (A23549,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.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



Immunofluorescence analysis of RAW264.7 cells using CD45 Rabbit mAb (A23549) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 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).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.