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CD44 Rabbit mAb

Catalog No.: A24605 Recombinant

Basic Information

Observed MW
86kDa

Calculated MW
86kDa

Category
Primary antibody

Applications
WB,IF/ICC,FC,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC63783

Background

Enables hyaluronic acid binding activity and type II transforming growth factor beta receptor binding activity. Contributes to cytokine binding activity and cytokine receptor activity. Involved in several processes, including negative regulation of T cell activation; positive regulation of protein phosphorylation; and regulation of intracellular signal transduction. Acts upstream of or within several processes, including Wnt signaling pathway; morphogenesis of a branching epithelium; and wound healing involved in inflammatory response. Located in basolateral plasma membrane; external side of plasma membrane; and microvillus. Part of macrophage migration inhibitory factor receptor complex. Is expressed in several structures, including alimentary system; branchial arch; central nervous system; genitourinary system; and limb. Human ortholog(s) of this gene implicated in breast carcinoma (multiple); carcinoma (multiple); and prostate cancer. Orthologous to human CD44 (CD44 molecule (Indian blood group)).

Recommended Dilutions

WB	1:1000 - 1:2000
IF/ICC	1:200 - 1:800
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
12505

Swiss Prot
P15379

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 23-176 of mouse CD44 (NP_033981.2).

Synonyms
Ly-24; Pgp-1; HERMES; CD44

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

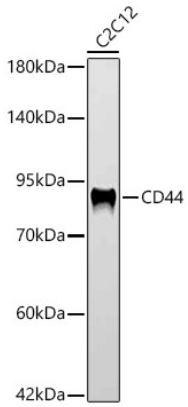
Source
Rabbit

Isotype
IgG

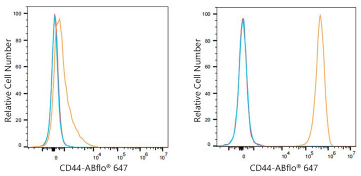
Purification
Affinity purification

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

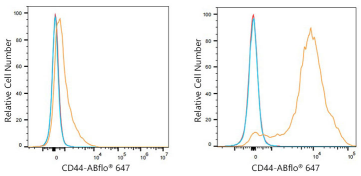
Validation Data



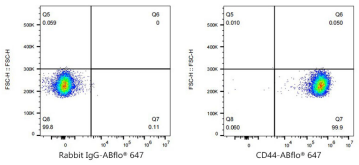
Western blot analysis of lysates from C2C12 cells, using CD44 Rabbit mAb (A24605) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



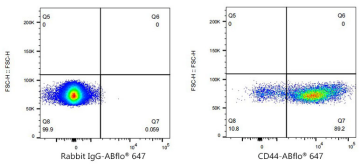
Flow cytometry: 1X10^6 CHO cells (negative control,left) and EL4 cells (right) were surface-stained with CD44 Rabbit mAb (A24605,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



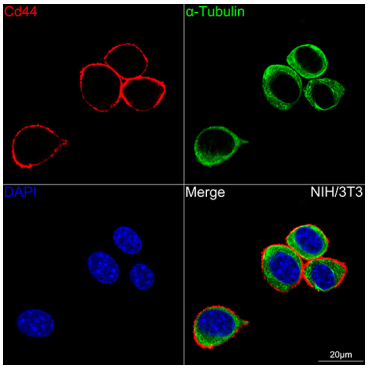
Flow cytometry: 1X10^6 CHO cells (negative control,left) and C57BL/6 splenocytes (right) were surface-stained with CD44 Rabbit mAb (A24605,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 EL4 cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,left) or CD44 Rabbit mAb (A24605,2 µg/mL,right).



Flow cytometry: 1X10^6 C57BL/6 splenocytes were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,left) or CD44 Rabbit mAb (A24605,2 µg/mL,right).



Confocal imaging of NIH/3T3 cells using CD44 Rabbit mAb (A24605,dilution 1:200)(Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.