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[KD Validated] CD98/SLC3A2 Rabbit mAb

Catalog No.: A24735 Recombinant 1 Publications

Basic Information

Observed MW
75-120kDa

Calculated MW
57kDa/61kDa/67kDa/68kDa/71kDa

Category
Primary antibody

Applications
WB,IF/ICC,FC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC64397

Background

This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intracellular calcium levels and transports L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized.

Recommended Dilutions

WB	1:1000 - 1:4000
IF/ICC	1:200 - 1:2000
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
6520

Swiss Prot
P08195

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

Synonyms
4F2; CD98; MDU1; 4F2HC; 4T2HC; NACAE; CD98HC; CD98/SLC3A2

Contact

400-999-6126

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Product Information

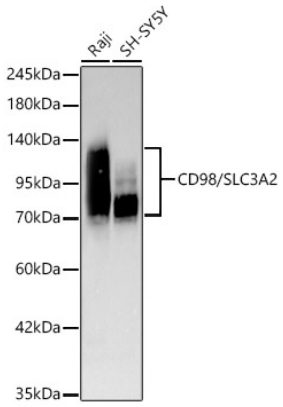
Source
Rabbit

Isotype
IgG

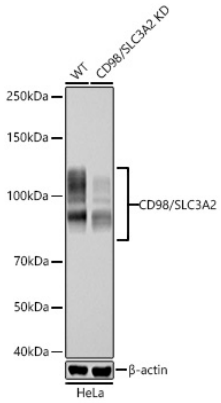
Purification
Affinity purification

Storage
Store at -20℃. 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.

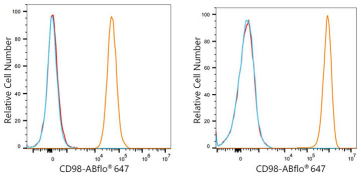
Validation Data



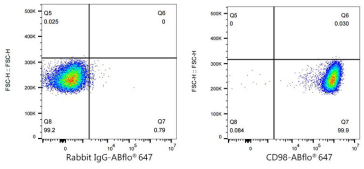
Western blot analysis of various lysates, using [KD Validated] CD98/SLC3A2 Rabbit mAb (A24735) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



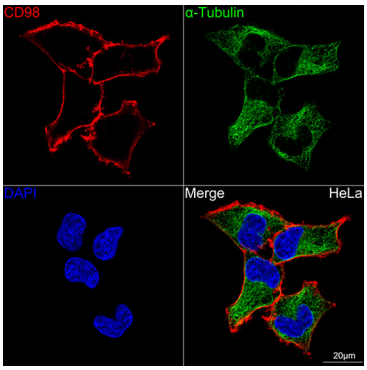
Western blot analysis of lysates from wild type (WT) and CD98/SLC3A2 knockdown (KD) HeLa cells using [KD Validated] CD98/SLC3A2 Rabbit mAb (A24735) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 15s.



Flow cytometry: 1X10^6 SH-SY5Y cells (Low Expression,left) and HeLa cells (right) were surface-stained with CD98/SLC3A2 Rabbit mAb (A24735,2 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).

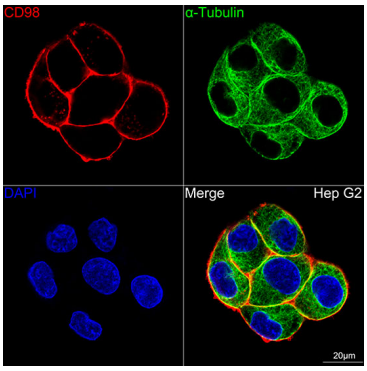


Flow cytometry: 1X10^6 HeLa cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or CD98/SLC3A2 Rabbit mAb (A24735,2 µg/mL,right).



Confocal imaging of HeLa cells using [KD Validated] CD98/SLC3A2 Rabbit mAb (A24735,dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.

Validation Data



Confocal imaging of Hep G2 cells using [KD Validated] CD98/SLC3A2 Rabbit mAb (A24735,dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.