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CD38 Rabbit mAb

Catalog No.: A25398 Recombinant

Basic Information

Observed MW
45 kDa

Calculated MW
14 kDa/34 kDa

Category
Primary antibody

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

Cross-Reactivity
Human

CloneNo number
ARC66212

Background

The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB	1:1000 - 1:10000
IF/ICC	1:100 - 1:400
IHC-P	1:500 - 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
952

Swiss Prot
P28907

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

Synonyms
ADPRC1; cADPR1; ADPRC 1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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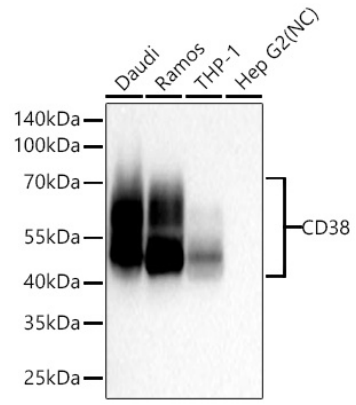
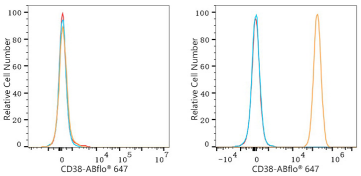
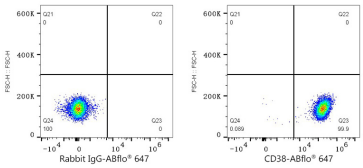
Validation Data



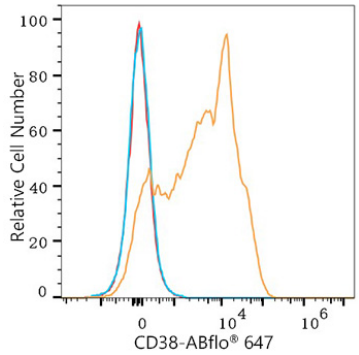
Western blot analysis of various lysates using CD38 Rabbit mAb (A25398) at 1:3000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Hep G2
Exposure time: 20 s.



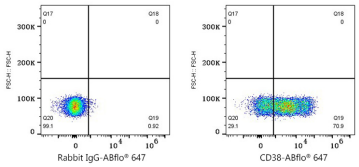
Flow cytometry: 1X10^6 Hep G2 cells (negative control,left) and Daudi cells (right) were surface-stained with CD38 Rabbit mAb (A25398,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



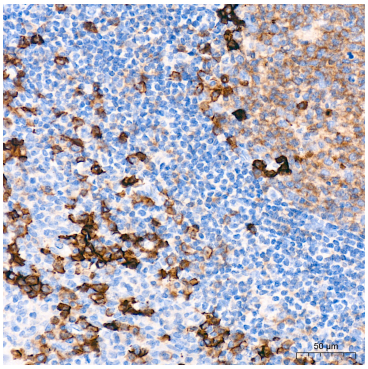
Flow cytometry: 1X10^6 Daudi cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or CD38 Rabbit mAb (A25398,2 µg/mL,right).



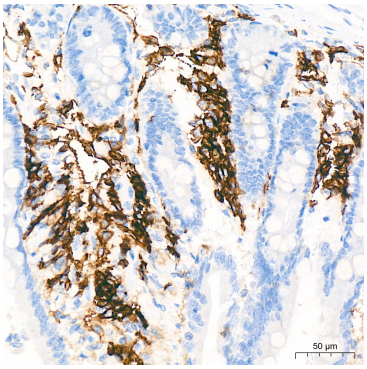
Flow cytometry: 1X10^6 Human PBMC were surface-stained with CD38 Rabbit mAb (A25398,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained Human PBMC were used as blank control (red line).



Flow cytometry: 1X10^6 Human PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or CD38 Rabbit mAb (A25398,2 µg/mL,right).

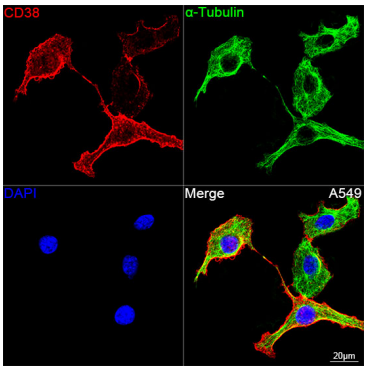


Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD38 Rabbit mAb (A25398) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.

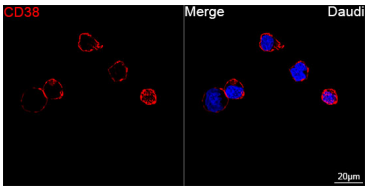


Immunohistochemistry analysis of paraffin-embedded Human colon tissue using CD38 Rabbit mAb (A25398) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.

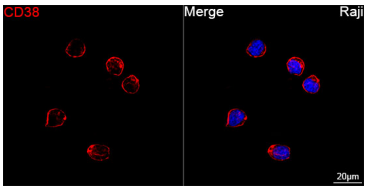
Validation Data



Confocal imaging of A549 cells using CD38 Rabbit mAb (A25398, 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 Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of Daudi cells using CD38 Rabbit mAb (A25398, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of Raji cells using CD38 Rabbit mAb (A25398, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.