

CD38 Rabbit mAb

Catalog No.: A25398 **Recombinant**

Basic Information

Observed MW

45kDa

Calculated MW

14kDa/34kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, FC

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 - 1:5000
IHC-P	1:500 - 1:1000
FC	1:500 - 1:1000

Immunogen Information

Gene ID

952

Swiss Prot

P28907

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 43-300 of human CD38 (NP_001766.2).

Synonyms

ADPRC1; cADPR1; ADPRC 1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

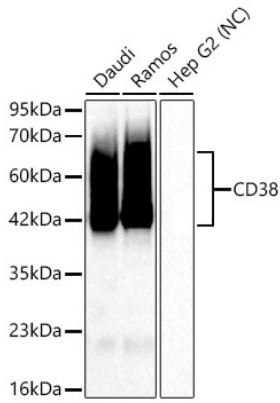
Affinity purification

Storage

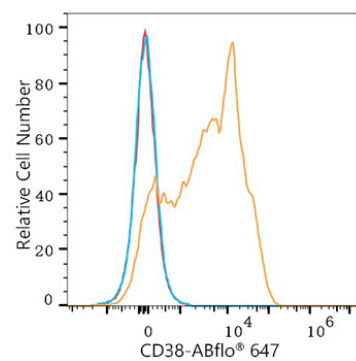
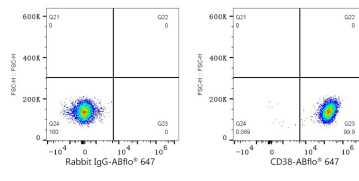
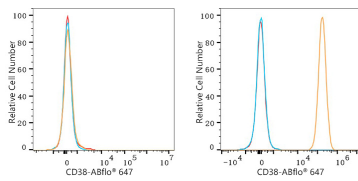
Store at -20°C. Avoid freeze / thaw cycles.

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

Validation Data



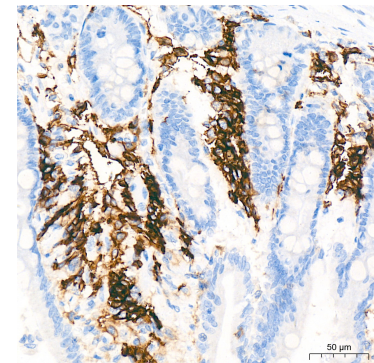
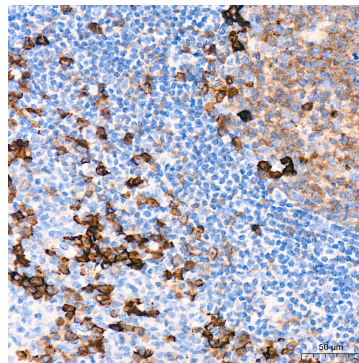
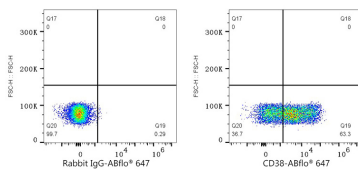
Western blot analysis of various lysates using CD38 Rabbit mAb (A25398) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): Hep G2. Exposure time: 30s.



Flow cytometry: 1×10^6 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: 1×10^6 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: 1×10^6 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: 1×10^6 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 CD38 in 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 CD38 in 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.