

CD38 Rabbit pAb

Catalog No.: A13611 **1 Publications**

Basic Information

Observed MW

45kDa

Calculated MW

34kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

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	1:500 - 1:2000
IHC-P	1:2000 - 1:4000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID	Swiss Prot
952	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; CD38

Contact

 | www.abclonal.com

Product Information

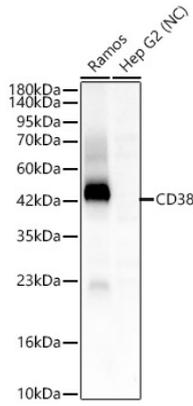
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

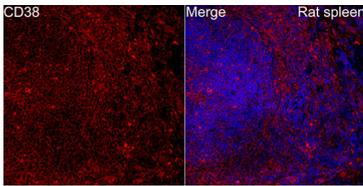
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

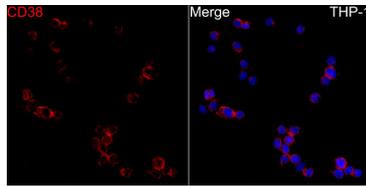
Validation Data



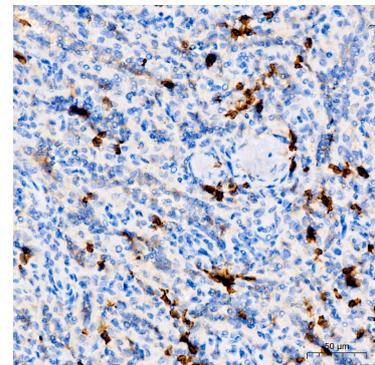
Western blot analysis of various lysates using CD38 Rabbit pAb (A13611) at 1:2000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Negative control (NC): Hep G2. Exposure time: 30s.



Immunofluorescence analysis of rat spleen cells using CD38 Rabbit pAb (A13611) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of THP-1 cells using CD38 Rabbit pAb (A13611) 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 CD38 in paraffin-embedded human spleen tissue using CD38 Rabbit pAb (A13611) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval was performed with 0.01M Tris-EDTA buffer (pH 9.0) prior to IHC staining.