

# 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

<b>WB</b>	1:500 - 1:2000
<b>IHC-P</b>	1:2000 - 1:4000
<b>IF/ICC</b>	1:50 - 1:200

## 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; CD38

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

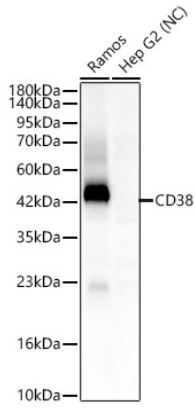
Affinity purification

**Storage**

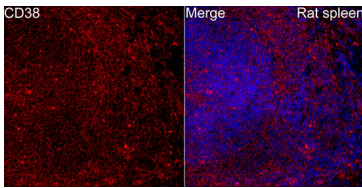
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

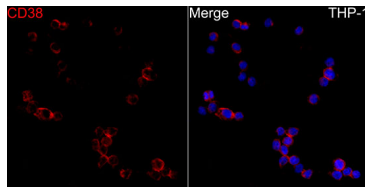
## Validation Data



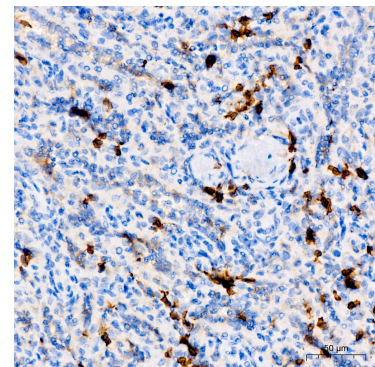
Western blot analysis of various lysates using CD38 Rabbit pAb (A13611) at 1:2000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Negative control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