

**Product Name: CD38 Rabbit Polyclonal Antibody**  
**Catalog #: APRab08380**



## Summary

<b>Production Name</b>	CD38 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	CD38
<b>Alternative Names</b>	CD38; ADP-ribosyl cyclase 1; Cyclic ADP-ribose hydrolase 1; cADPr hydrolase 1; T10; CD38
<b>Gene ID</b>	952.0
<b>SwissProt ID</b>	P28907.The antiserum was produced against synthesized peptide derived from the Internal region of human CD38. AA range:211-260

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. IHC-p: 1:100-1:300. ELISA: 1:20000..
<b>Molecular Weight</b>	35kD

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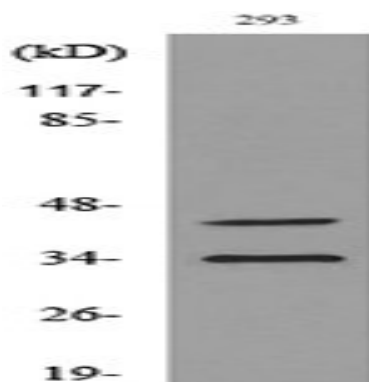
## Background

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. [provided by RefSeq, Sep 2015], catalytic activity:  $\text{NAD}(+) + \text{H}_2\text{O} = \text{ADP-ribose} + \text{nicotinamide}$ , developmental stage: Preferentially expressed at both early and late stages of the B and T-cell maturation. It is also detected on erythroid and myeloid progenitors in bone marrow, where the level of surface expression was shown to decrease during differentiation of blast-forming unit E to colony-forming unit E, enzyme regulation: ATP inhibits the hydrolyzing activity, function: Synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system, online information: CD38 entry, similarity: Belongs to the ADP-ribosyl cyclase family, tissue specificity: Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

## Research Area

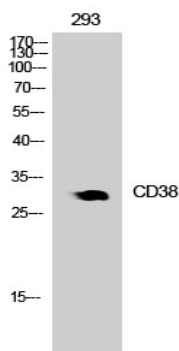
Nicotinate and nicotinamide metabolism; Calcium; Hematopoietic cell lineage;

## Image Data

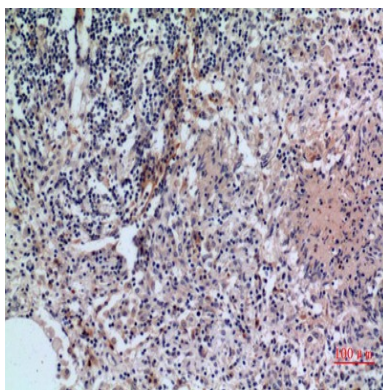


Western blot analysis of lysate from 293 cells, using CD38 Antibody.

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Western Blot analysis of 293 cells using CD38 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100

## **Note**

For research use only.