

**CD38 Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11147****Specification**

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**CD38 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	<a href="#">P28907</a>
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34kDa KDa

**CD38 Antibody (Internal) - Additional Information****Gene ID** 952**Other Names**

ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, 3.2.2.6, 2'-phospho-ADP-ribosyl cyclase, 2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase, 2.4.99.20, 2'-phospho-cyclic-ADP-ribose transferase, ADP-ribosyl cyclase 1, ADPRC 1, Cyclic ADP-ribose hydrolase 1, cADPr hydrolase 1, T10, CD38, CD38

**Target/Specificity**

Human CD38. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

CD38 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD38 Antibody (Internal) - Protein Information****Name** CD38**Function**

Synthesizes cyclic ADP-ribose (cADPR), a second messenger for glucose-induced insulin secretion (PubMed: [7961800](http://www.uniprot.org/citations/7961800)), PubMed: [8253715](http://www.uniprot.org/citations/8253715)). Synthesizes the Ca(2+) mobilizer nicotinate-adenine dinucleotide phosphate, NAADP(+), from 2'-phospho-cADPR and nicotinic acid, as well as from NADP(+) and nicotinic acid. At both pH 5.0 and pH 7.4 preferentially transforms 2'-phospho-cADPR into NAADP(+), while preferentially cleaving NADP(+) to cADPR and ADPRP rather than into NADDP(+) (PubMed: [16690024](http://www.uniprot.org/citations/16690024)). Has cADPR hydrolase activity (PubMed: [7961800](http://www.uniprot.org/citations/7961800))

target="\_blank">7961800</a>, PubMed:<a href="http://www.uniprot.org/citations/8253715" target="\_blank">8253715</a>).

#### Cellular Location

Cell surface. Membrane; Single-pass type II membrane protein

#### Tissue Location

Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

#### Volume

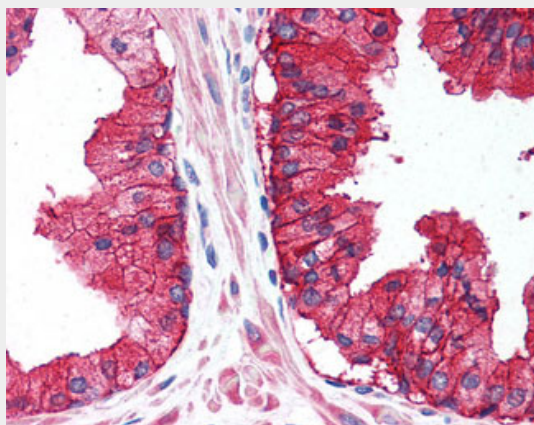
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### CD38 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CD38 Antibody (Internal) - Images



Anti-CD38 antibody ALS11147 IHC of human prostate.

### CD38 Antibody (Internal) - Background

Synthesizes the second messengers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.

### CD38 Antibody (Internal) - References

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Nata K., et al. Gene 186:285-292(1997).  
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