

**CD38 Antibody**  
**Rabbit mAb**  
**Catalog # AP90746****Specification****CD38 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P28907</a>
Clonality	<b>Monoclonal</b>
<b>Other Names</b>	
CD38 antigen; ADP ribosyl cyclase 1; Cd38-rs1; ADP ribosyl cyclase; ADP ribosyl cyclase/cyclic ADP-ribose hydrolase; ADP-ribosyl cyclase 1; cADPr hydrolase 1; CD38 antigen (p45); CD38 molecule;	
Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>34328 Da</b>

**CD38 Antibody - Additional Information**

Dilution	<b>WB~~1:1000</b> <b>IHC~~1:100~500</b>
Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human CD38</b>
Description	<b>CD38 is a transmembrane protein involved in several important biological processes, including immune response, insulin secretion, and social behavior. 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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

**CD38 Antibody - Protein Information****Name** CD38**Function**

Synthesizes cyclic ADP-ribose (cADPR), a second messenger for glucose-induced insulin secretion (PubMed:<a href="http://www.uniprot.org/citations/7961800" target="\_blank">7961800</a>, PubMed:<a href="http://www.uniprot.org/citations/8253715" target="\_blank">8253715</a>). 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:<a href="http://www.uniprot.org/citations/16690024" target="\_blank">16690024</a>). Has cADPR hydrolase activity (PubMed:<a href="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

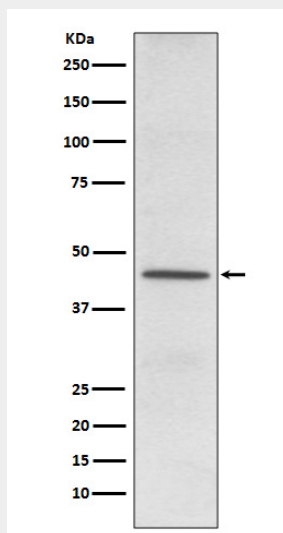
Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

### CD38 Antibody - 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 - Images



Western blot analysis of CD38 expression in HeLa cell lysate.