

CD38 Antibody (clone HIT2)
Mouse Monoclonal Antibody
Catalog # ALS13467**Specification**

CD38 Antibody (clone HIT2) - Product Information

Application	IHC
Primary Accession	P28907
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	34kDa KDa

CD38 Antibody (clone HIT2) - 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

Reacts with CD38 (T10), a 45 kD type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

CD38 Antibody (clone HIT2) is for research use only and not for use in diagnostic or therapeutic procedures.

CD38 Antibody (clone HIT2) - Protein Information**Name** CD38**Function**

Synthesizes cyclic ADP-ribose (cADPR), a second messenger for glucose-induced insulin secretion (PubMed:8253715, PubMed:7961800). 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). Has cADPR hydrolase activity (PubMed:8253715).

target="_blank">8253715, PubMed:7961800).

Cellular Location

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

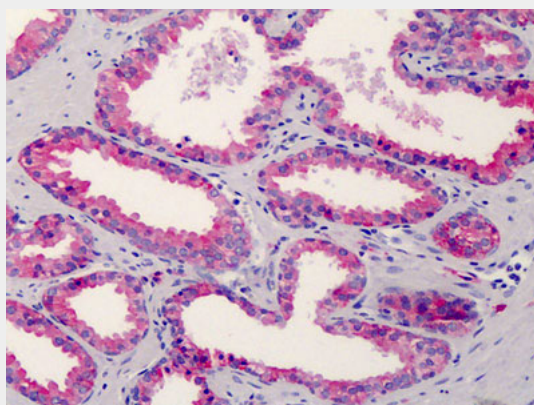
Tissue Location

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

CD38 Antibody (clone HIT2) - 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 (clone HIT2) - Images

Anti-CD38 antibody IHC of human prostate.

CD38 Antibody (clone HIT2) - 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 (clone HIT2) - References

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