10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD38 Antibody (clone HIT2)

Mouse Monoclonal Antibody
Catalog # ALS12024

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

Reconstitution & Storage
Store undiluted at 4 degrees C

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, PubMed:7961800).

Cellular Location

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

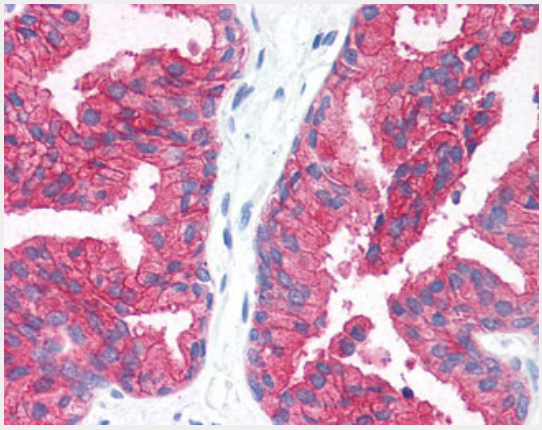
Tissue Location
Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

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 Cytomety
- Cell Culture

CD38 Antibody (clone HIT2) - Images



Anti-CD38 antibody IHC of human prostate.

CD38 Antibody (clone HIT2) - Background

Synthesizes the second messagers 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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