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CD38 (14S19) Rabbit Monoclonal Antibody

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Catalog # AP93826

Product Information

Application	WB, IHC
Primary Accession	P56528
Reactivity	Mouse
Clonality	Monoclonal
Calculated MW	34408

Additional Information

Gene ID	12494
Other Names	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, 3.2.2.-, 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, I-19, NIM-R5 antigen, CD38, Cd38
Dilution	WB~~1:1000 IHC~~1:100~500
Storage Conditions	-20℃

Protein Information

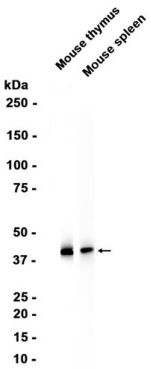
Name	Cd38
Function	Synthesizes the second messengers cyclic ADP-ribose (cADPR) and nicotinate-adenine dinucleotide phosphate (NAADP), the former a second messenger for glucose-induced insulin secretion, the latter a Ca(2+) mobilizer (PubMed:11829748). Also has cADPR hydrolase activity (By similarity).
Cellular Location	Membrane; Single-pass type II membrane protein

Background

This gene encodes 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. Knockout mice deficient for this gene display altered humoral immune responses. In addition, knockout

mice exhibit higher locomotor activity and defects in nurturing and social behaviors. [provided by RefSeq, Sep 2015]

Images



Western blot analysis of extracts from Mouse thymus,spleen tissue using AP93826 at 1:1000.