



# CAPS2 Monoclonal Antibody

Catalog No	BYmab-05404
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	CADPS2 CAPS2 KIAA1591
Protein Name	Calcium-dependent secretion activator 2 (Calcium-dependent activator protein for secretion 2) (CAPS-2)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CAPS2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	142kD
Cell Pathway	Cytoplasmic vesicle membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, synapse. Membrane-associated to vesicles. Strongly enriched in synaptic fractions. Probably localizes to different vesicles compared to CADPS. Enriched on vesicular structures in the parallel fiber terminal of granule cells that are distinct from synaptic vesicles.
Tissue Specificity	Widely expressed. Expressed in all adult and fetal tissues examined, with the strongest expression in kidney and pancreas. In brain, it is expressed at high levels in cerebellum, to a lesser degree in cerebral cortex, occipital pole, and frontal and temporal lobes. Only weakly expressed in medulla, spinal cord and putamen.
Function	domain:The PH domain is essential for regulated exocytosis and binds phospholipids.,function:Calcium-binding protein involved in exocytosis of vesicles filled with neurotransmitters and neuropeptides. Probably acts upstream of fusion in the biogenesis or maintenance of mature secretory vesicles. Regulates neurotrophin release from granule cells leading to regulate cell differentiation and

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survival during cerebellar development. May specifically mediate the Ca(2+)-dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles.,PTM:Isoform 2 is phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Chimera.,sequence caution:Contaminating sequence. Potential poly-A sequence.,similarity:Contains 1 C2 domain.,similarity:Contains 1 MHD1 (MUNC13 homology domain 1) domain.,similarity:Contains 1 PH domain.,subcellular location:Membrane-associated to vesic

#### Background

calcium dependent secretion activator 2(CADPS2) Homo sapiens This gene encodes a member of the calcium-dependent activator of secretion (CAPS) protein family, which are calcium binding proteins that regulate the exocytosis of synaptic and dense-core vesicles in neurons and neuroendocrine cells. Mutations in this gene may contribute to autism susceptibility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2009],

#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images