



CAPS1 mouse mAb

Catalog No	YP-mAb-08815
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	CADPS CAPS CAPS1 KIAA1121
Protein Name	CAPS1
Immunogen	Synthesized peptide derived from human CAPS1 AA range: 1275-1325
Specificity	This antibody detects endogenous levels of CAPS1 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	Cell junction, synapse . Cytoplasmic vesicle, secretory vesicle, neuronal dense core vesicle membrane ; Peripheral membrane protein . Membrane-associated to vesicles. Strongly enriched in synaptic fractions. Preferentially binds to dense core vesicles but not to synaptic vesicles. Binds phosphoinositides, with a strong selectivity for PtdIns(4,5)P2 over PtdIns(3,4,5)P3. Probably localizes to different vesicles compared to CADPS2. .
Tissue Specificity	Specifically expressed in neural and endocrine secretory tissues. Expressed in brain and pancreas and at low level in heart. Also expressed in fetal heart, cerebellum, cerebral cortex, medulla, occipital pole, frontal and temporal lobes, and putamen, as well as weak expression in spinal cord.
Function	domain:The PH domain is essential for regulated exocytosis and binds phospholipids and plasma membrane. It however does not mediate binding to DCVs.,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 catecholamine loading of DCVs. May specifically mediate the Ca(2+)-dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles by acting as a PtdIns(4,5)P2-binding protein that acts at prefusion step following ATP-dependent priming and participates in DCVs-membrane fusion. However, it



may also participate in small clear synaptic vesicles (SVs) exocytosis and it is unclear whether its function is related to Ca^{2+} triggering.,similarity:Contains 1 C2 domain.,similarity:Contains 1 MHD1 (MUNC13 homo

Background

This gene encodes a novel neural/endocrine-specific cytosolic and peripheral membrane protein required for the Ca^{2+} -regulated exocytosis of secretory vesicles. The protein acts at a stage in exocytosis that follows ATP-dependent priming, which involves the essential synthesis of phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂). Alternative splicing has been observed at this locus and three variants, encoding distinct isoforms, are described. [provided by RefSeq, Aug 2008],

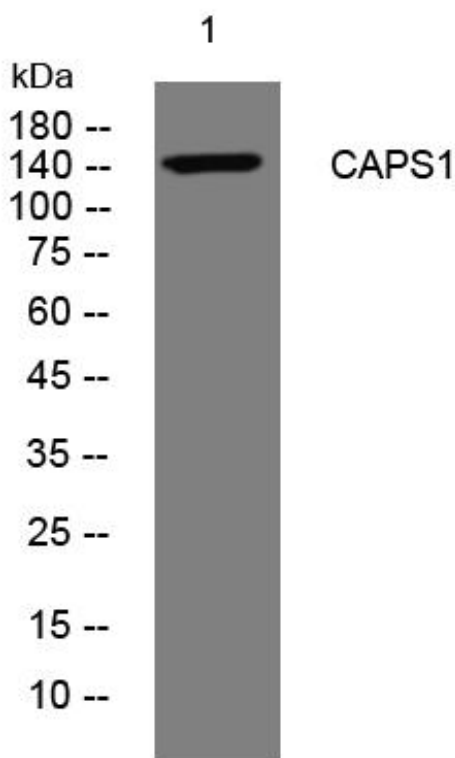
matters needing attention

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



Western Blot analysis of various cells using CAPS1 mouse mAb