CAPS2 Rabbit pAb

CatalogNo: YN0530

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ELISA

MW
- 142kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CAPS2 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	CADPS2 CAPS2 KIAA1591

Protein Name	Calcium-dependent secretion activator 2 (Calcium-dependent activator protein for secretion 2) (CAPS-2)

Organism	Gene ID	UniProt ID
Human	93664;	Q86UW7;
Mouse		Q8BYR5;

Cellular Localization	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 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 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.,subunit:Homodimer (By similarity). Interacts with the dopamine receptor DRD2.,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.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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