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Rabbit Anti-SNAP29 antibody

SL11363R

Product Name:	SNAP29
Chinese Name:	突触相关蛋白29抗体
Alias:	SNAP 29; SNAP-29; SNAP29; SNP29_HUMAN; Soluble 29 kDa NSF attachment protein; Synaptosomal associated protein 29; Synaptosomal associated protein 29kDa; Synaptosomal-associated protein 29; Vesicle membrane fusion protein SNAP 29; Vesicle membrane fusion protein SNAP29; Vesicle-membrane fusion protein SNAP-29; CEDNIK; FLJ21051.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	29kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SNAP29:181-258/258
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	SNAP 29 is a 258 amino acid protein that localizes to the membrane and the cytoplasm, as well as to the cell junction, and contains one t-SNARE coiled-coil homology domain. Expressed in liver, heart, brain, kidney, placenta, lung, spleen, pancreas and

skeletal muscle, SNAP 29 binds tightly to Syntaxins and, via this binding, is involved in membrane trafficking events. Defects in the gene encoding SNAP 29 are the cause of CEDNIK syndrome, a neurocutaneous syndrome that is associated with cerebral dysgenesis, neuropathy, ichthyosis and palmoplantar keratoderma. The gene encoding SNAP 29 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia.

Function:
SNAREs, Soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion. SNAP29 is a SNARE involved in autophagy through the direct control of autophagosome membrane fusion with the lysososome membrane. Probably involved in multiple membrane trafficking steps.

Subunit:
Interacts with multiple syntaxins including STX6 (By similarity). Forms a SNARE complex, composed of VAMP8, SNAP29 and STX17, involved in fusion of autophagosome with lysosome.

Subcellular Location:
Cytoplasm. Membrane; Peripheral membrane protein. Cell junction, synapse, synaptosome. Note=Appears to be mostly membrane-bound, probably via interaction with syntaxins, but a significant portion is cytoplasmic.

Tissue Specificity:
Found in brain, heart, kidney, liver, lung, placenta, skeletal muscle, spleen and pancreas.

DISEASE:
Defects in SNAP29 are the cause of CEDNIK syndrome (CEDNIK) [MIM:609528]. CEDNIK is a neurocutaneous syndrome characterized by cerebral dysgenesis, neuropathy, ichthyosis and palmoplantar keratoderma

Similarity:
Belongs to the SNAP-25 family.
Contains 1 t-SNARE coiled-coil homology domain.

SWISS:
O95721

Gene ID:
9342

	Database links: Entrez Gene: 9342Human Entrez Gene: 67474Mouse Entrez Gene: 116500Rat Omim: 604202Human SwissProt: O95721Human SwissProt: Q9ERB0Mouse SwissProt: Q9Z2P6Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.