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Rabbit Anti-BEGAIN antibody

SL11335R

Product Name:	BEGAIN
Chinese Name:	大脑富含鸟苷酸激酶相关蛋白抗体
Alias:	BEGAIN; BEGIN; Brain enriched guanylate kinase associated protein; Brain-enriched guanylate kinase-associated homolog (rat); KIAA1446; SAP90/PSD95 Associated Proteins; SAPAP; BEGIN_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Sheep,
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:	65kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BEGAIN:1-100/593
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:	BEGAIN is a 593 amino acid protein that localizes to cytoplasm and membrane. BEGAIN interacts with PSD-95 and SAPAP1 and forms a ternary complex and may sustain the structure of the postsynaptic density (PSD). BEGAIN is a novel PSD component associated with the core complex of PSD-95 and SAPAP. Because BEGAIN and SAPAP interact with the same region of PSD-95, BEGAIN and SAPAP

may compete for the binding to PSD-95 and cannot interact with PSD-95 simultaneously. The C-terminal region of BEGAIN is involved in the interaction with PSD-95 whereas the N-terminal region has a coiled-coil structure that may interact with other molecules. BEGAIN is specifically expressed in brain and enriched in the PSD fraction. BEGAIN is also expressed in neurons and enriched at synaptic junctions, and is likely involved in the organization of synaptic junction components.

Function:
Brain-enriched guanylate kinase-associated protein (BEGAIN) interacts with postsynaptic density (PSD)-95/synapse-associated protein (SAP) 90. BEGAIN has been detected in nuclei and at synapses in neurons.

Subunit:
Interacts with DLG4 and DLGAP1 and forms a ternary complex (By similarity).

Subcellular Location:
Cytoplasm (By similarity). Membrane; Peripheral membrane protein (By similarity).

SWISS:
Q9BUH8

Gene ID:
57596

Database links:

Entrez Gene: 57596 Human

Entrez Gene: 380785 Mouse

Entrez Gene: 79146 Rat

Entrez Gene: 443287 Sheep

SwissProt: Q9BUH8 Human

SwissProt: Q68EF6 Mouse

SwissProt: O88881 Rat

SwissProt: Q6R6L0-4 Sheep

Unigene: 211751 Human

Unigene: 342085 Mouse

Unigene: 30036 Rat

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.