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R Cask Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20487c

Product Information

Application	WB, E
Primary Accession	Q62915
Other Accession	O70589, O14936
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	103259
Antigen Region	589-616

Additional Information

Gene ID	29647
Other Names	Peripheral plasma membrane protein CASK, Calcium/calmodulin-dependent serine protein kinase, Cask
Target/Specificity	This Rat Cask antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 589-616 amino acids from the Central region of rat Cask.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	R Cask Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Cask {ECO:0000312|RGD:62004}
Function	Multidomain scaffolding Mg(2+)-independent protein kinase that catalyzes the phosphotransfer from ATP to proteins such as NRXN1, and plays a role in synaptic transmembrane protein anchoring and ion channel trafficking (By

	similarity). Multidomain scaffolding protein with a role in synaptic transmembrane protein anchoring and ion channel trafficking.ontributes to neural development and regulation of gene expression via interaction with the transcription factor TBR1. Binds to cell-surface proteins, including amyloid precursor protein, neurexins, and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1. Component of the LIN-10-LIN-2-LIN-7 complex, which associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules (By similarity).
Cellular Location	Nucleus. Cytoplasm. Cell membrane; Peripheral membrane protein
Tissue Location	Expressed in the foot process layer of podocytes in the kidney glomerulus and in tubules (at protein level). Detected in brain and neurons.

Background

Multidomain scaffolding protein with a role in synaptic transmembrane protein anchoring and ion channel trafficking. Contributes to neural development and regulation of gene expression via interaction with the transcription factor TRB1. Binds to cell-surface proteins, including amyloid precursor protein, neurexins, and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1.

References

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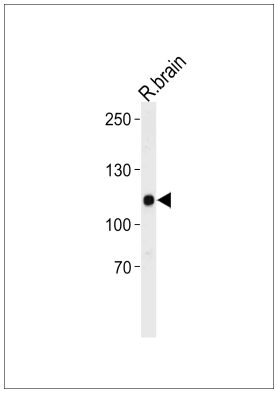
Butz S., et al. Cell 94:773-782(1998).
Hsueh Y.P., et al. Nature 404:298-302(2000).
Tabuchi K., et al. J. Neurosci. 22:4264-4273(2002).
Chetkovich D.M., et al. J. Neurosci. 22:6415-6425(2002).

Images



Rat Cask Antibody (Center) (Cat. #AP20487c) western blot analysis in rat brain tissue lysates (35ug/lane).This demonstrates the Rat Cask antibody detected the Rat Cask protein (arrow).