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R Cask Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20487c

Specification

R Cask Antibody (Center) - 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**

R Cask Antibody (Center) - 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

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.

R Cask Antibody (Center) - 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

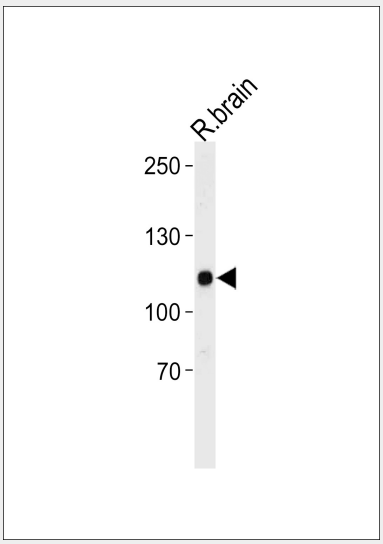
Tissue Location
Expressed in the foot process layer of podocytes in the kidney glomerulus and in tubules (at protein level). Detected in brain and neurons.

R Cask Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

R Cask Antibody (Center) - 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).

R Cask Antibody (Center) - Background

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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.

R Cask Antibody (Center) - References

Hata Y., et al. J. Neurosci. 16:2488-2494(1996).
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).