

**R Cask Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20487c**

**Specification**

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**R Cask Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O62915</a>
Other Accession	<a href="#">O70589</a> , <a href="#">O14936</a>
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, neuexins, 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

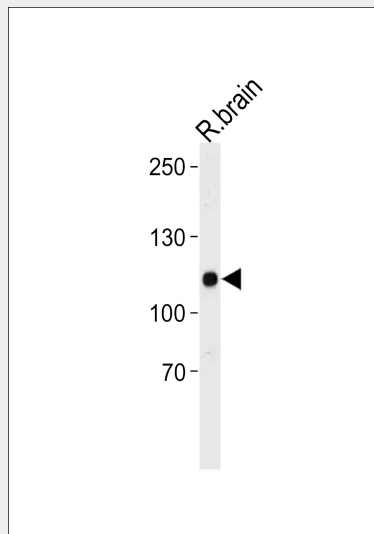
Expressed in the foot process layer of podocytes in the kidney glomerulus and in tubules (at protein level). Detected in brain and neurons.

### 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 Cytometry](#)
- [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

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, neuexins, 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).