

For Research Use Only

# CASK Polyclonal antibody

Catalog Number: 55277-1-AP

Featured Product



## Basic Information

### Catalog Number:

55277-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 273 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_003688

### GeneID (NCBI):

8573

### UNIPROT ID:

O14936

### Full Name:

calcium/calmodulin-dependent serine protein kinase (MAGUK family)

### Calculated MW:

105 kDa

### Observed MW:

100-110 kDa, 50-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: mouse brain tissue, mouse liver tissue, A549 cells, rat brain tissue

**IHC**: rat small intestine tissue, mouse kidney tissue, human thyroid cancer tissue

## Background Information

CASK, also named as LIN2, belongs to the MAGUK family. It is a multidomain scaffolding protein with a role in synaptic transmembrane protein anchoring and ion channel trafficking. It contributes to neural development and regulation of gene expression via interaction with the transcription factor TRB1. CASK binds to cell-surface proteins, including amyloid precursor protein, neuroligins and syndecans. It 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. Defects in CASK are the cause of mental retardation X-linked CASK-related (MRXCASK). Defects in CASK are the cause of FG syndrome type 4 (FGS4). This antibody can recognize all the isoform of CASK.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

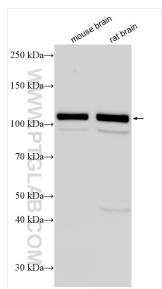
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

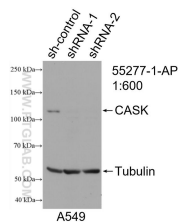
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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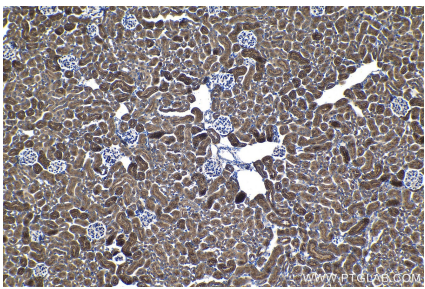
Selected Validation Data



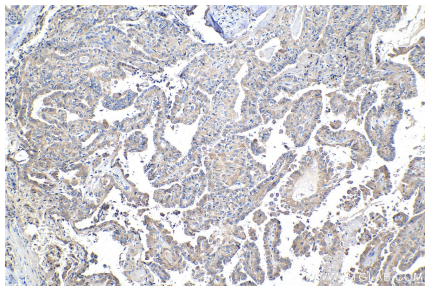
Various lysates were subjected to SDS PAGE followed by western blot with 55277-1-AP (CASK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



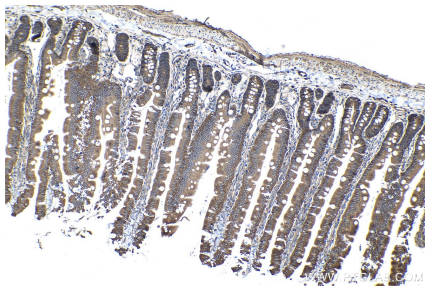
WB result of CASK antibody (55277-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-CASK transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 55277-1-AP (CASK antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 55277-1-AP (CASK antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 55277-1-AP (CASK antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).