

For Research Use Only

# MARK4 Polyclonal antibody

Catalog Number: 20174-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

20174-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14013

### GenBank Accession Number:

BC009049

### GeneID (NCBI):

57787

### UNIPROT ID:

Q96L34

### Full Name:

MAP/microtubule affinity-regulating kinase 4

### Calculated MW:

752 aa, 83 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, ELISA

### Cited Applications:

IHC, IF, IP

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

IHC : human kidney tissue, human colon tissue, human gliomas tissue, human testis tissue

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

## Background Information

MARK4(MAP/microtubule affinity-regulating kinase 4) is also named as KIAA1860, MARKL1 and belongs to the CAMK Ser/Thr protein kinase family and SNF1 subfamily. It is directly involved in microtubule organization in neuronal cells and may contribute to the pathological phosphorylation of tau in Alzheimer's disease and it also plays a role in hepatocellular carcinogenesis. This protein has 2 isoforms produced by alternative splicing with the molecular weight of 83 kDa and 75 kDa. MARK4 can exist as 40-65 kDa forms in hippocampal homogenates from Alzheimer's disease and non-demented elderly cases besides the full-length isoform 84 kDa. (PMID:24533944).

## Notable Publications

Author	Pubmed ID	Journal	Application
Lingling Wang	33094326	Endocrinology	
Ying Gao	27815338	FASEB J	
Wenhui Su	31682474	FASEB J	

## 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

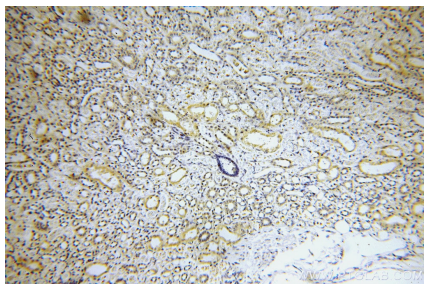
For technical support and original validation data for this product please contact:

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

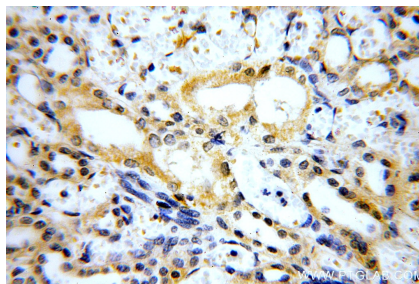
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney using 20174-1-AP (MARK4 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 20174-1-AP (MARK4 antibody) at dilution of 1:50 (under 40x lens).