

For Research Use Only

# ARK5 Polyclonal antibody

Catalog Number: 22723-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

22723-1-AP

### Size:

207 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18612

### GenBank Accession Number:

BC152462

### GeneID (NCBI):

9891

### UNIPROT ID:

O60285

### Full Name:

NUAK family, SNF1-like kinase, 1

### Calculated MW:

661 aa, 74 kDa

### Observed MW:

74 kDa

### Purification Method:

Antigen Affinity purified

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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, rat heart tissue, mouse heart tissue

**IHC** : human colon cancer tissue, human heart tissue

## Background Information

NUAK1 is a member of the human adenosine monophosphate (AMP)-activated protein kinase family that has been identified as a key tumor cell survival factor. It is also named as ARK5, KIAA0537, OMPHK1 and belongs to the protein kinase superfamily. The physiological role of NUAK1 is potentially to suppress glucose uptake through negative regulation of INS signaling in oxidative muscle. This protein has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rosaura Esteve-Puig	25329316	PLoS Genet	WB
Myeong-Seong Seo	35691157	Biomed Pharmacother	WB
Jingbang Wu	31360102	Int J Biol Sci	IHC

## 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

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

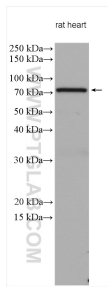
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

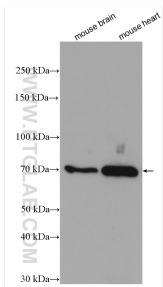
W: [ptgcn.com](http://ptgcn.com)

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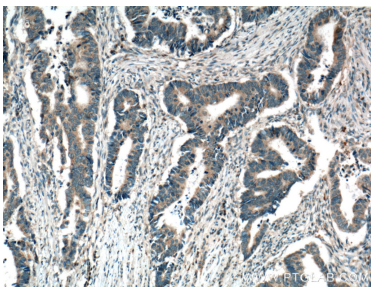
## Selected Validation Data



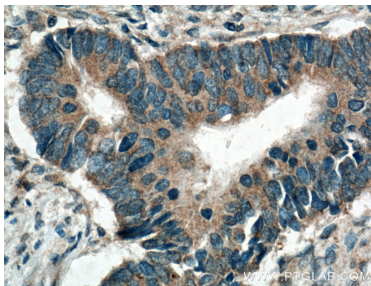
rat heart tissue were subjected to SDS PAGE followed by western blot with 22723-1-AP (ARK5 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 22723-1-AP (ARK5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22723-1-AP (ARK5 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22723-1-AP (ARK5 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).