

For Research Use Only

# AKD2 Polyclonal antibody

Catalog Number: 27554-1-AP

1 Publications



## Basic Information

### Catalog Number:

27554-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25805

### GenBank Accession Number:

BC022031

### GeneID (NCBI):

221264

### UNIPROT ID:

Q5TCS8

### Full Name:

adenylate kinase domain containing 2

### Calculated MW:

221 kDa

### Observed MW:

45-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

Human

### Cited Species:

human

### Positive Controls:

WB : SMMC-7721 cells, HepG2 cells, HuH-7 cells

IHC : human heart tissue, human liver cancer 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

AK9, also named as adenylate kinase 9, belongs to adenylate kinase family, which is a small, usually monomeric, enzyme found in every living thing due to its crucial role in energetic metabolism (PMID: 30666486). AK9 is a nucleoside mono- and diphosphate kinase due to its broad phosphatase activity, the local concentration of substrates probably influences catalytic activity (PMID: 24495878). This antibody can detect 45-50 kDa band of AK9 (PMID: 23416111).

## Notable Publications

Author	Pubmed ID	Journal	Application
Tingting Hua	38051288	Mol. Carcinog	WB

## 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

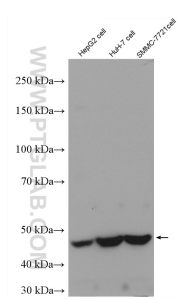
For technical support and original validation data for this product please contact:

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

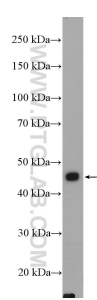
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

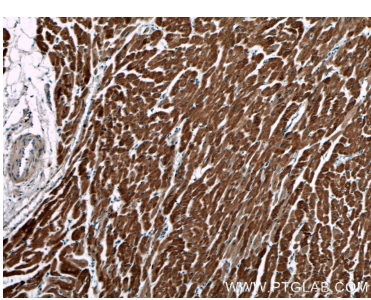
Selected Validation Data



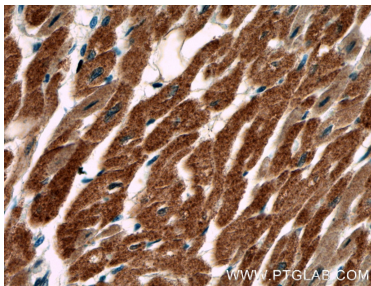
Various lysates lysate were subjected to SDS PAGE followed by western blot with 27554-1-AP (AKD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



SMMC-7721 cells were subjected to SDS PAGE followed by western blot with 27554-1-AP (AKD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 27554-1-AP (AKD2 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 27554-1-AP (AKD2 antibody) at dilution of 1:200 (under 40x lens).