

For Research Use Only

# AKD2 Polyclonal antibody

Catalog Number: 27554-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 27554-1-AP	<b>GenBank Accession Number:</b> BC022031	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 650 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 221264	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q5TCS8	
<b>Isotype:</b> IgG	<b>Full Name:</b> adenylate kinase domain containing 2	
<b>Immunogen Catalog Number:</b> AG25805	<b>Calculated MW:</b> 221 kDa	
	<b>Observed MW:</b> 45-50 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : SMMC-7721 cells, HepG2 cells, HuH-7 cells IHC : human heart tissue, human liver cancer tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

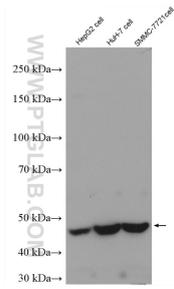
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

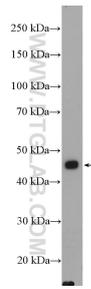
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

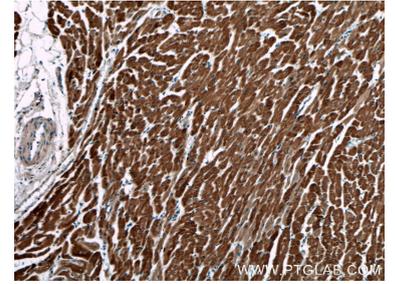
## Selected Validation Data



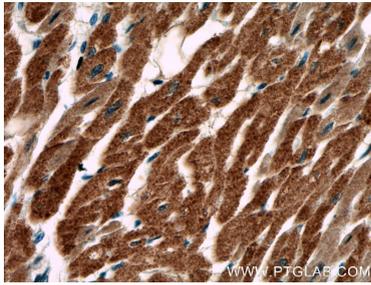
Various lysates lysate were subjected to SDS PAGE followed by western blot with 27554-1-AP (AKD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).