

For Research Use Only

# AK3 Polyclonal antibody

Catalog Number: 12562-1-AP

2 Publications



## Basic Information

### Catalog Number:

12562-1-AP

### Size:

150ul, Concentration: 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3146

### GenBank Accession Number:

BC013771

### GeneID (NCBI):

50808

### UNIPROT ID:

Q9UIJ7

### Full Name:

adenylate kinase 3

### Calculated MW:

227 aa, 26 kDa

### Observed MW:

26 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human

**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**: human placenta tissue, BxPC-3 cells, HEK-293 cells, HepG2 cells, human kidney tissue, L02 cells, MCF-7 cells, mouse heart tissue, mouse kidney tissue, Y79 cells

**IP**: mouse kidney tissue,

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

**IF/ICC**: HepG2 cells,

## Background Information

AK3 (Adenylate kinase 3) is also named as AK3L1, AK6, AKL3L and belongs to the adenylate kinase family. It is located in the mitochondrial matrix and is a GTP:AMP phosphotransferase (PMID:2546792). AK3 can be detected AK3 at an apparent molecular mass of 28 kD by western blot analysis and subcellular fractionation of mouse liver and kidney detected Ak3 in the mitochondrial fraction (PMID:11485571). This antibody may also recognize AK4 due to the high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wei-Yan Qin	32196830	J Gene Med	WB
Yue Li	31059086	Mol. Med Rep	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

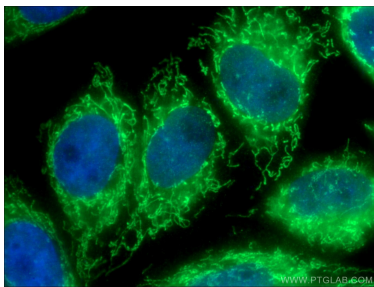
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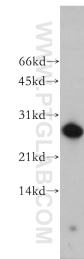
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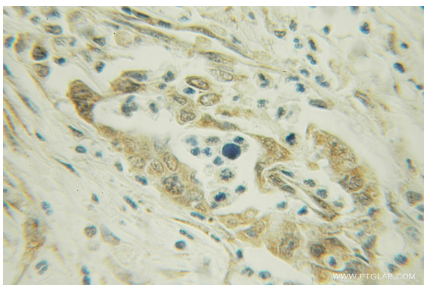
Selected Validation Data



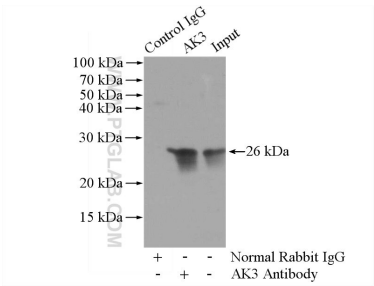
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12562-1-AP (AK3 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



human placenta tissue were subjected to SDS PAGE followed by western blot with 12562-1-AP (AK3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 12562-1-AP (AK3 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-AK3 (IP:12562-1-AP, 3ug; Detection:12562-1-AP 1:500) with mouse kidney tissue lysate 4400ug.