For Research Use Only

# AK3 Polyclonal antibody

Catalog Number:12562-1-AP 2 Publications

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## 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

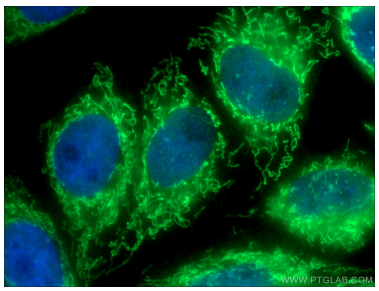
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

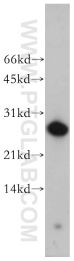
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

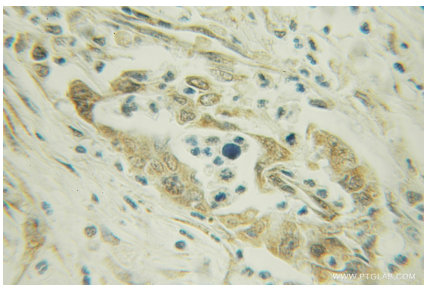
## Selected Validation Data



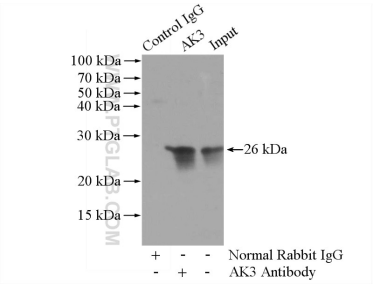

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12562-1-AP (AK3 antibody) at dilution of 1:50 and CoraLite488-Conjugated Goat Anti-Rabbit IgG(H+L).




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.