

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 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : HepG2 cells, Y79 cells, L02 cells, mouse heart tissue, mouse kidney tissue

IP : mouse kidney tissue,

IHC : human pancreas cancer tissue, human heart tissue

IF/ICC : HepG2 cells,

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

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

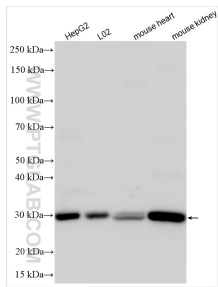
For technical support and original validation data for this product please contact:

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

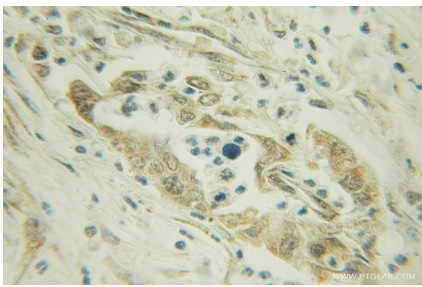
E: proteintech@ptglab.com
W: ptglab.com

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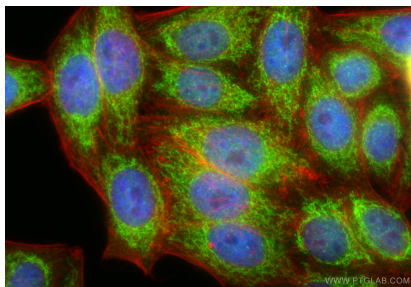
Selected Validation Data



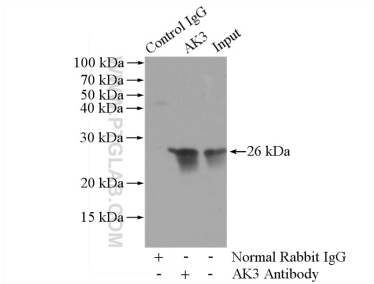
Various lysates were subjected to SDS PAGE followed by western blot with 12562-1-AP (AK3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using AK3 antibody (12562-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



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