

For Research Use Only

AK3 Polyclonal antibody

Catalog Number: 12562-1-AP **2 Publications**



Basic Information

Catalog Number: 12562-1-AP	GenBank Accession Number: BC013771	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 320 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 50808	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: adenylate kinase 3	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 227 aa, 26 kDa	IF 1:50-1:500
Immunogen Catalog Number: AG3146	Observed MW: 26 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: WB	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
Species Specificity: human, mouse, rat	IP: mouse kidney tissue,
Cited Species: human	IHC: human pancreas cancer tissue, human heart tissue
Note-IHC: <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i>	IF: 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

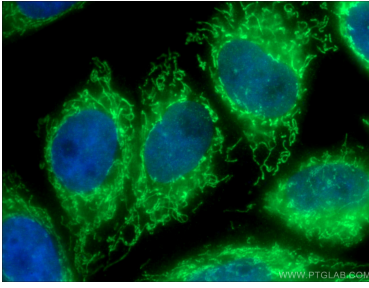
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

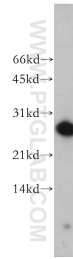
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

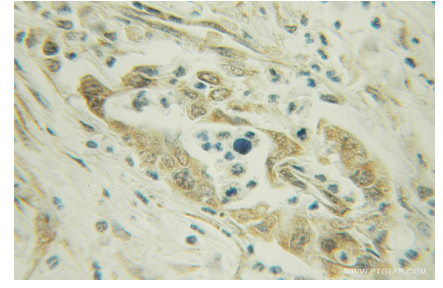
Selected Validation Data



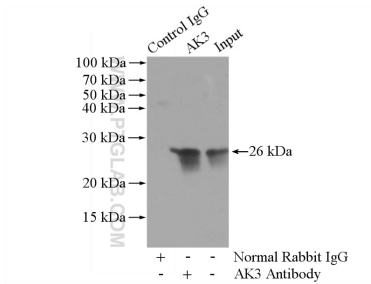
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12562-1-AP (AK3 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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.