

AK2 Polyclonal Antibody

Catalog number: 11014-1-AP

Size: 32 µg/150 µl

Source: Rabbit

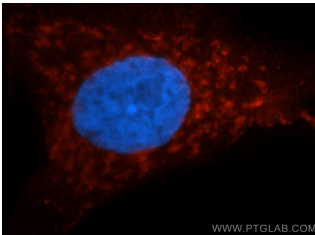
Isotype: IgG

Synonyms:

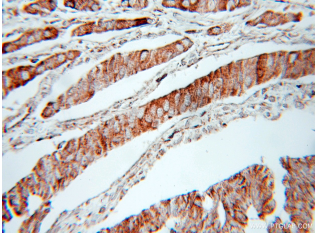
AK2; adenylate kinase 2, ADK2,

AK 2, AK2, ATP AMP

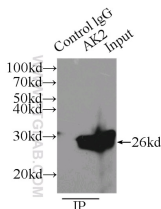
transphosphorylase 2



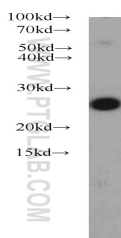
Immunofluorescent analysis of A549 cells, using AK2 antibody 11014-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human pancreas cancer using 11014-1-AP (AK2 antibody) at dilution of 1:50 (under 10x lens)



IP Result of anti-AK2 (IP:11014-1-AP, 3ug; Detection:11014-1-AP 1:800) with mouse liver tissue lysate 12500ug.



Background

AK2(Adenylate kinase 2, mitochondrial) is also named as ADK2 and belongs to the adenylate kinase family. It plays a unique role in energy metabolism and energy transfer by regulating the ATP/ADP rate between the cytoplasmic matrix and the mitochondria and it is increased expression during adipocyte and B cell differentiation(PMID:23020757). AK2 catalyzes the reversible transfer of a phosphoryl group from ATP to AMP(PMID:19043417). Defects in AK2 are the cause of reticular dysgenesis (RDYS)(PMID:19043416). It has 6 isoforms produced by alternative splicing.

Applications

Tested applications:	ELISA, WB, IHC, IF, IP
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat, Zebrafish; other species not tested.
Cited species:	Mouse, zebrafish
Calculated AK2 MW:	26 kDa
Observed AK2 MW:	26 kDa
Positive WB detected in	HeLa cells, HEK-293 cells, human heart tissue, human liver tissue, Jurkat cells, Raji cells
Positive IP detected in	Mouse liver tissue
Positive IHC detected in	Human pancreas cancer tissue, human brain tissue, human heart tissue, human kidney tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human testis tissue
Positive IF detected in	A549 cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1464
GenBank accession number:	BC009405
Gene ID (NCBI):	204
Full name:	Adenylate kinase 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

HeLa cells were subjected to SDS PAGE followed by western blot with 11014-1-AP(AK2 antibody) at dilution of 1:800