

Rabbit AK2 Polyclonal Antibody | anti-AK2 antibody

Anti-AK2 Antibody

CATALOG # AAA46819	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
------------------------------	-----------------------	--	---

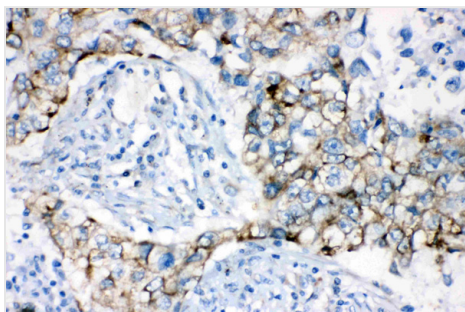
PRODUCT SYNONYMS

AK2; Polyclonal Antibody; Anti-AK2 Antibody; Adenylate kinase 2; ADK2; AK 2; ak2; P54819; mitochondrial; anti-AK2 antibody

PRODUCT SPECIFICATIONS

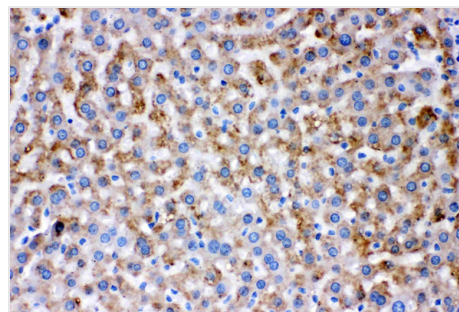
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	224
Applicable Applications for anti-AK2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human AK2 recombinant protein (Position: E161-I239). Human AK2 shares 93.7% and 93% amino acid (aa) sequence identity with mouse and rat AK2, respectively.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



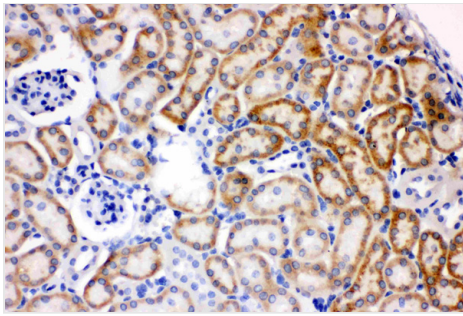
IHC (Immunohistochemistry)

AK2 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- AK2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



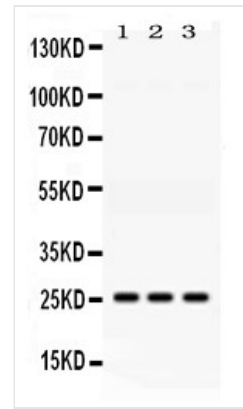
IHC (Immunohistochemistry)

AK2 was detected in paraffin-embedded sections of rat liver tissues using rabbit anti- AK2 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)

AK2 was detected in paraffin-embedded sections of mouse kidney tissues using rabbit anti-AK2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of AK2 expression in rat liver extract (lane 1), mouse kidney extract (lane 2) and HELA whole cell lysates (lane 3). AK2 at 26KD was detected using rabbit anti-AK2 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-AK2 antibody	Rabbit IgG polyclonal antibody for Adenylate kinase 2, mitochondrial(AK2) detection. Background: Adenylate kinase 2 is an enzyme is encoded in humans by the AK2 gene. The AK2 protein is found in the intermembrane space of the mitochondrion. Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1 and 2.
References	1. Bruns GA, Regina VM (1977). "Adenylate kinase 2, a mitochondrial enzyme". Biochem. Genet. 15 (5-6): 477-86. 2. Köhler C, Gahm A, Noma T, et al. (1999). "Release of adenylate kinase 2 from the mitochondrial intermembrane space during apoptosis". FEBS Lett. 447 (1): 10-2.

NCBI AND UNIPROT INFORMATION

NCBI GI #	312836806
NCBI GeneID	204
NCBI Accession #	NP_001186128.1
NCBI GenBank Nucleotide #	NM_001199199.1
UniProt Accession #	P54819 ; Q16856 ; Q5EB54 ; Q5TIF7 ; Q8TCY2 ; Q8TCY3 ; A8K6L1 ; B4DHH7 ; B4DL64
Molecular Weight	21,636 Da
NCBI Official Full Name	adenylate kinase 2, mitochondrial isoform c
NCBI Official Synonym Full Names	adenylate kinase 2
NCBI Official Symbol	AK2
NCBI Official Synonym Symbols	ADK2
NCBI Protein Information	adenylate kinase 2, mitochondrial
UniProt Protein Name	Adenylate kinase 2, mitochondrial
UniProt Gene Name	AK2
UniProt Synonym Gene Names	AK 2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ak2-antibody-immunohistochemistry-western-blot-elisa/46819>