

Rabbit AK4 Polyclonal Antibody | anti-AK4 antibody

AK4 Antibody

CATALOG # AAA326543	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

AK4; Polyclonal Antibody; AK4 Antibody; Adenylate kinase 3 like 1; Adenylate kinase 3-like; adenylate kinase 4; Adenylate kinase isoenzyme 4; mitochondrial; AK3; AK3L1; AK3L2; ATP-AMP transphosphorylase; GTP:AMP phosphotransferase; KAD4_HUMAN; MGC166959; mitochondrial adenylate kinase 3; nucleoside-triphosphate adenylate kinase; anti-AK4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AK4 antibody detects endogenous levels of total AK4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	223
Applicable Applications for anti-AK4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AK4
Subcellular Location	Mitochondrion Matrix.
Tissue Specificity	Highly expressed in kidney, moderately expressed in heart and liver and weakly expressed in brain.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (83%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (83%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA326543 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using AK4 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-AK4 antibody

Description: This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1. [provided by RefSeq, Jul 2008]
Function: Involved in maintaining the homeostasis of cellular nucleotides by catalyzing the interconversion of nucleoside phosphates. Efficiently phosphorylates AMP and dAMP using ATP as phosphate donor, but phosphorylates only AMP when using GTP as phosphate donor. Also displays broad nucleoside diphosphate kinase activity.
Subunit Structure: Monomer.
Similarity: Consists of three domains, a large central CORE domain and two small peripheral domains, NMPbind and LID, which undergo movements during catalysis. The LID domain closes over the site of phosphoryl transfer upon GTP/ATP binding. Assembling and dissambling the active center during each catalytic cycle provides an effective means to prevent GTP/ATP hydrolysis. Belongs to the adenylate kinase family. AK3 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	53832003
NCBI GeneID	205
NCBI Accession #	NP_001005353.1
NCBI GenBank Nucleotide #	NM_001005353.2
UniProt Accession #	P27144; Q6IBH4; Q6NXQ5; Q8IUU9; B2R927; D3DQ62
Molecular Weight	Observed: 25 kDa Predicted: 26 kDa
NCBI Official Full Name	adenylate kinase 4, mitochondrial isoform a
NCBI Official Synonym Full Names	adenylate kinase 4
NCBI Official Symbol	AK4
NCBI Official Synonym Symbols	AK3; AK 4; AK3L1; AK3L2
NCBI Protein Information	adenylate kinase 4, mitochondrial
UniProt Protein Name	Adenylate kinase 4, mitochondrial
UniProt Gene Name	AK4
UniProt Synonym Gene Names	AK3; AK3L1UniRule annotationManual assertion according to rulesiHAMAP-Rule:MF_03170; AK 4

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/ak4-antibody-immunohistochemistry-western-blot-elisa/326543>