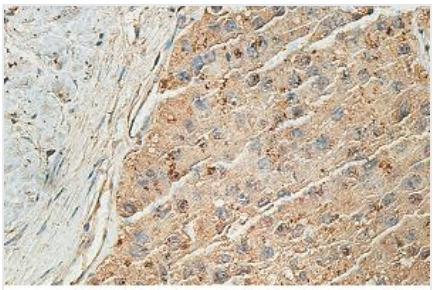
AK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AK2, Polyclonal Antibody
Full Product Name	AK2 Antibody
Product Gene Name	anti-AK2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified by protein A column containing 0.02% NaN3
Preparation and Storage	Already reconstituted in 200ul sterile H2O. The antibody is stable for at least one year when stored at-20 degree C after reconstitution. Avoid repeated freeze/defrost cycles.
Molecular Weight	21,636 Da
OMIM	103020
3D Structure	ModBase 3D Structure for P54819
Product Categories/Family for anti-AK2 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AK2 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-AK2 antibody	ELISA: 1:10,000-1:40,000 IHC: 1:100-500
Related Product Information for anti-AK2 antibody	Rabbit polyclonal AK2 (1) antibody was raised against a recombinate human AK2 protein 25-193aa (NM_013411).
Product References and Citations for anti-AK2 antibody	(1) Lagresle-Peyrou, C., Six, E.M., Picard, C., et al. Human adenylate kinase 2 deficiency causes a profound hematopoietic defect associated with sensorineural deafness.Nat. Genet. 41 (1), 106-111 (2009).
Other Notes	Small volumes of anti-AK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AK2 purchase	MBS856180 is an antibody targeting AK2. Also known as AK2 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemical staining of formalin-fixed paraffin-embedded hepatocarcinoma showing cytoplasmic staining with anti-AK2 antibody at a dilution of 1/100

Testing Data of anti-AK2 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AK2. It may not necessarily be applicable to this product.

NCBI GI #	7524346
NCBI GeneID	204
NCBI Accession #	NP_037543.1
UniProt Primary Accession #	P54819
UniProt Secondary Accession #	Q16856; Q5EB54; Q5TIF7; Q8TCY2; Q8TCY3; A8K6L1; B4DHH7; B4DL64
UniProt Related Accession #	P54819
GenBank Nucleotide #	NM_013411.4
NCBI Official Full Name	adenylate kinase 2, mitochondrial isoform b
NCBI Official Synonym Full Names	adenylate kinase 2
NCBI Official Symbol	AK2
NCBI Official Synonym Symbols	ADK2
UniProt Protein Name	Adenylate kinase 2, mitochondrial
UniProt Synonym Protein Names	ATP-AMP transphosphorylase 2
UniProt Gene Name	AK2
UniProt Synonym Gene Names	AK 2
NCBI Protein Information	adenylate kinase 2, mitochondrial
NCBI Summary for AK2	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.[provided by RefSeq, Nov 2010]
UniProt Comments for AK2	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo biosynthesis pathways. Plays a key role in hematopoiesis.
Research Articles on AK2	**1.** Reticular dysgenesis -patient derived induced pluripotent stem cells can recapitulate disease phenotype which can be rescued by AK2 overexpression.

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