ADK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADK, Polyclonal Antibody
Full Product Name	ADK Antibody
Product Gene Name	anti-ADK antibody
Product Synonym Names	AK
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total ADK protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	40,545 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (75910943..76469061). Location: 10q22; 10q11-q24
OMIM	102750
3D Structure	ModBase 3D Structure for P55263
Immunogen	Fusion protein corresponding to residues near the C terminal of human adenosine kinase
Product Categories/Family for anti-ADK antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ADK antibody	Western Blot (WB)
Application Notes for anti-ADK antibody	WB: 1:200-1:1000
Related Product Information for anti-ADK antibody	This gene an enzyme which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Multiple transcript variants encoding different isoforms have been found for this gene
Other Notes	Small volumes of anti-ADK 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 ADK purchase	MBS8589403 is an antibody targeting ADK. Also known as ADK Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	32484973
NCBI GeneID	132
NCBI Accession #	NP_001114.2
UniProt Primary Accession #	P55263
UniProt Secondary Accession #	O00741; O00742; Q16710; Q5JQ11; Q9BTN2; B7Z783
UniProt Related Accession #	P55263
GenBank Nucleotide #	NM_001123.3
NCBI Official Full Name	adenosine kinase isoform a
NCBI Official Synonym Full Names	adenosine kinase
NCBI Official Symbol	ADK
NCBI Official Synonym Symbols	AK
UniProt Protein Name	Adenosine kinase
UniProt Synonym Protein Names	Adenosine 5'-phosphotransferase
UniProt Gene Name	ADK
UniProt Synonym Gene Names	AK
UniProt Entry Name	ADK_HUMAN
NCBI Protein Information	adenosine kinase; adenosine 5'-phosphotransferase
NCBI Summary for ADK	This gene an enzyme which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for ADK	ADK: ATP dependent phosphorylation of adenosine and other related nucleoside analogs to monophosphate derivatives. Serves as a potential regulator of concentrations of extracellular adenosine and intracellular adenine nucleotides. Defects in ADK are the cause of hypermethioninemia due to adenosine kinase deficiency (HMAKD). A metabolic disorder characterized by global developmental delay, early-onset seizures, mild dysmorphic features, and characteristic biochemical anomalies, including persistent hypermethioninemia with increased levels of S-adenosylmethionine and S-adenosylhomocysteine. Homocysteine levels are typically normal. Belongs to the carbohydrate kinase PfkB family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.1.20; Nucleotide Metabolism - purine; Kinase, other Chromosomal Location of Human Ortholog: 10q22|10q11-q24 Cellular Component: nucleoplasm; cytoplasm; cytosol Molecular Function: metal ion binding; adenosine kinase activity; phosphotransferase activity, alcohol group as acceptor; ATP binding Biological Process: nucleobase, nucleoside and nucleotide metabolic process; dATP biosynthetic process; ribonucleoside monophosphate biosynthetic process; positive regulation of T cell proliferation; circadian regulation of gene expression; adenosine metabolic process; phosphorylation; purine base metabolic process; purine salvage Disease: Hypermethioninemia Due To Adenosine Kinase Deficiency

Research Articles on ADK	**1.** Data show that we a significantly higher expression of ADK in the peritumoral infiltrated tissue of patients with epilepsy than in patients without epilepsy.
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