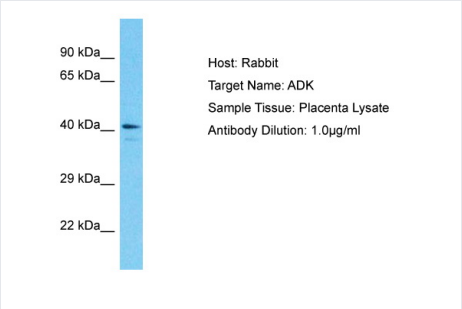
ADK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADK, Polyclonal Antibody
Full Product Name	ADK Antibody - N-terminal region
Product Gene Name	anti-ADK antibody
Product Synonym Gene Name	ADK;
Immunogen Sequence	Synthetic peptide located within the following region: KVEAPQALRE NILFGMGNPL LDISAVVDKD FLDKYSLKPN DQILAEDKHK
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ADK peptide (MBS3244069) is used for blocking the activity of ADK antibody (MBS3219178)
Molecular Weight	39kDa
OMIM	102750
3D Structure	ModBase 3D Structure for P55263
Immunogen	The immunogen is a synthetic peptide directed towards the N-terminal region of Human ADK
Product Categories/Family for anti-ADK antibody	Polyclonal; Various
Applications Tested/Suitable for anti-ADK antibody	Western Blot (WB)
Related Product Information for anti-ADK antibody	This is a rabbit polyclonal antibody against ADK. It was validated on Western Blot Target Description: 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	MBS3219178 is an antibody targeting ADK. Also known as ADK Antibody - N-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ADK antibody
Host: RabbitTarget Name: ADKSample Type: Placenta lysatesAntibody Dilution: 1.0ug/ml

ADDITIONAL DETAILS

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

NCBI GI #	32484975
NCBI GeneID	132
NCBI Accession #	NP_006712
UniProt Primary Accession #	P55263
UniProt Related Accession #	P55263
GenBank Nucleotide #	NM_006721.3
NCBI Official Full Name	adenosine kinase isoform b
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
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.** The results of this study showed that over-expression of the major adenosine removing enzyme ADK in reactive astrocytes and subpopulation of remaining neurons in Rasmussen Encephalitis patients plays an important role in the epileptogensis of Rasmussen Encephalitis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/adk/3219178