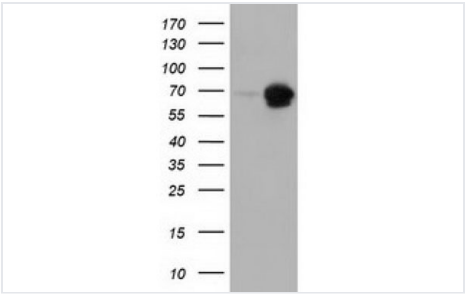
AK5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	AK5, Monoclonal Antibody
Full Product Name	AK5 antibody
Product Gene Name	anti-AK5 antibody
Product Synonym Names	Monoclonal AK5; Anti-AK5; Adenylate Kinase 5; AK6; MGC33326; AK5; AK 5; AK-5
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1D6
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	AK5 antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	60,315 Da
OMIM	608009
3D Structure	ModBase 3D Structure for Q9Y6K8
Cross-Reactivity	Human
Immunogen	AK5 antibody was raised in mouse using a full length recombinant protein of human AK5 (NP_777283) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-AK5 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-AK5 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-AK5 antibody	IF: 1:100 WB: 1:2000
Related Product Information for anti-AK5 antibody	MBS831753 is an antibody targeting AK5. Also known as AK5 antibody. Host: Mouse. Mouse monoclonal AK5 antibody
Other Notes	Small volumes of anti-AK5 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.



Western Blot (WB) of anti-AK5 antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant AK5 protein (Right) or empty vector (Left) detected with AK5 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AK5. It may not necessarily be applicable to this product.

NCBI GI #	28144897
NCBI GeneID	26289
NCBI Accession #	NP_777283
UniProt Primary Accession #	Q9Y6K8
UniProt Secondary Accession #	Q5U622; Q6FH66; Q7Z4T5; Q86YS0; Q8N464; Q96EC9
UniProt Related Accession #	Q9Y6K8
GenBank Nucleotide #	NM_174858.2
NCBI Official Full Name	adenylate kinase isoenzyme 5 isoform 1
NCBI Official Synonym Full Names	adenylate kinase 5
NCBI Official Symbol	AK5
NCBI Official Synonym Symbols	AK6
UniProt Protein Name	Adenylate kinase isoenzyme 5
UniProt Synonym Protein Names	ATP-AMP transphosphorylase 5
Protein Family	Adenylate kinase
UniProt Gene Name	AK5
UniProt Synonym Gene Names	AK 5
UniProt Entry Name	KAD5_HUMAN
NCBI Protein Information	adenylate kinase isoenzyme 5
NCBI Summary for AK5	This gene encodes a member of the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the UMP/CMP kinase of several species. It is located in the cytosol and expressed exclusively in brain. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for AK5	AK5: Active on AMP and dAMP with ATP as a donor. When GTP is used as phosphate donor, the enzyme phosphorylates AMP, CMP, and to a small extent dCMP. Belongs to the adenylate kinase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.4.3; Nucleotide Metabolism - purine; Kinase, other; EC 2.7.4.6 Chromosomal Location of Human Ortholog: 1p31 Cellular Component: cytoplasm; microtubule organizing center; cytosol Molecular Function: nucleoside kinase activity; nucleoside diphosphate kinase activity; adenylate kinase activity; ATP binding Biological Process: ATP metabolic process; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; nucleoside triphosphate biosynthetic process; pyrimidine ribonucleotide biosynthetic process; nucleoside diphosphate phosphorylation; ADP biosynthetic process; dADP biosynthetic process
Research Articles on AK5	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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