# AK5 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | AK5, Polyclonal Antibody |
| **Full Product Name** | AK5 |
| **Product Gene Name** | anti-AK5 antibody |
| **Product Synonym Gene Name** | AK6 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol. |
| **Purity/Purification** | Purified By Antigen Affinity Column |
| **Molecular Weight** | 60KD |
| **OMIM** | 608009 |
| **3D Structure** | ModBase 3D Structure for Q9Y6K8 |
| **Immunogen** | A peptide corresponding to middle region of human AK5 protein. |
| **Cellular Localization** | Cytoplasm |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-AK5 antibody** | ELISA (EIA), Immunohistochemistry (IHC) |
| **Application Notes for anti-AK5 antibody** | ELISA: 1:20,000-80,000<br>IHC: 1:100-500 |
| **Related Product Information for anti-AK5 antibody** | MBS8564104 is an antibody targeting AK5. Reactive in Human. Host: Rabbit. Homo sapiens adenylate kinase 5 (AK5), transcript variant 2, mRNA |
| **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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 28144899 |
| **NCBI GeneID** | 26289 |
| **UniProt Primary Accession #** | Q9Y6K8 |
| **UniProt Related Accession #** | Q9Y6K8 |
| **GenBank Nucleotide #** | NM_012093 |
| **NCBI Official Full Name** | adenylate kinase isoenzyme 5 isoform 2 |

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| **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.<br><br>Protein type: EC 2.7.4.6; Nucleotide Metabolism - purine; EC 2.7.4.3; Kinase, other<br><br>Chromosomal Location of Human Ortholog: 1p31<br><br>Cellular Component: cytoplasm; microtubule organizing center; cytosol<br><br>Molecular Function: nucleoside kinase activity; nucleoside diphosphate kinase activity; adenylate kinase activity; ATP binding<br><br>Biological Process: ATP metabolic process; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; nucleoside triphosphate biosynthetic process; pyrimidine ribonucleotide biosynthetic process; ADP biosynthetic process; nucleoside diphosphate phosphorylation; dADP biosynthetic process |
| **Research Articles on AK5** | **1.** Results indicate that AK5 expression significantly decreased in temporal lobe epilepsy: the expression of AK5 in epileptic brain tissue may play important roles in epilepsy, especially refractory epilepsy |
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