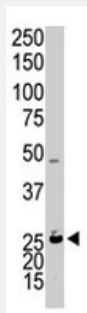


AK3L1 polyclonal antibody

Catalog # PAB3988

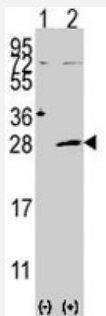
Size 400 uL

Applications



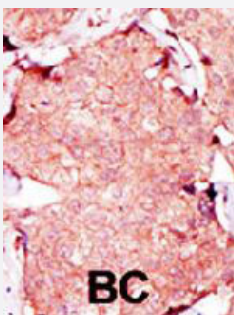
Western Blot (Tissue lysate)

The AK3L1 polyclonal antibody (Cat # PAB3988) is used in Western blot to detect AK3L1 in mouse kidney tissue lysate.



Western Blot (Transfected lysate)

Western blot analysis of AK3L1 (arrow) using rabbit AK3L1 polyclonal antibody (Cat # PAB3988). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AK3L1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast cancer tissue reacted with AK3L1 polyclonal antibody (Cat # PAB3988), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of AK3L1.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human AK3L1.

| | |
|---------------------|---|
| Host | Rabbit |
| Reactivity | Human, Mouse |
| Form | Liquid |
| Purification | Protein G purification |
| Recommend Usage | ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS (0.09% sodium azide) |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot (Tissue lysate)

The AK3L1 polyclonal antibody (Cat # PAB3988) is used in Western blot to detect AK3L1 in mouse kidney tissue lysate.

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This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — AK3L1

| | |
|--------------------|---|
| Entrez GeneID | 205 |
| Protein Accession# | NP_037542;NP_001005353;NP_982289;P27144 |
| Gene Name | AK3L1 |

| | |
|--------------------|---|
| Gene Alias | AK3, AK4, MGC166959 |
| Gene Description | adenylate kinase 3-like 1 |
| Omim ID | 103030 |
| Gene Ontology | Hyperlink |
| Gene Summary | This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1. [provided by RefSeq] |
| Other Designations | ATP-AMP transphosphorylase GTP:AMP phosphotransferase OTTHUMP00000010594 mitochondrial adenylate kinase-3 nucleoside-triphosphate-adenylate kinase |

Publication Reference

- [Identification of a novel human adenylate kinase. cDNA cloning, expression analysis, chromosome localization and characterization of the recombinant protein.](#)
 Van Rompay AR, Johansson M, Karlsson A.
 European Journal of Biochemistry 1999 Apr; 261(2):509.
- [Identification of a novel adenylate kinase system in the brain: cloning of the fourth adenylate kinase.](#)
 Yoneda T, Sato M, Maeda M, Takagi H.
 Brain Research. Molecular Brain Research 1998 Nov; 62(2):187.
- [Characterization of human adenylate kinase 3 \(AK3\) cDNA and mapping of the AK3 pseudogene to an intron of the NF1 gene.](#)
 Xu G, O'Connell P, Stevens J, White R.
 Genomics 1992 Jul; 13(3):537.

Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Tobacco Use Disorder](#)