

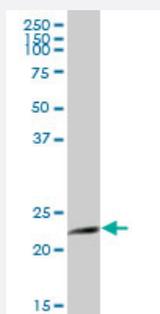
MaxPab®

## AK1 MaxPab mouse polyclonal antibody (B01)

Catalog # H00000203-B01

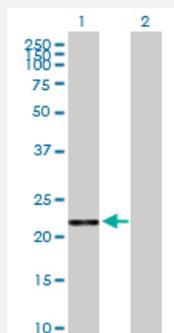
Size 50 uL

### Applications



#### Western Blot (Tissue lysate)

AK1 MaxPab polyclonal antibody. Western Blot analysis of AK1 expression in rat brain.



#### Western Blot (Transfected lysate)

Western Blot analysis of AK1 expression in transfected 293T cell line ([H00000203-T01](#)) by AK1 MaxPab polyclonal antibody.

Lane 1: AK1 transfected lysate(21.34 KDa).

Lane 2: Non-transfected lysate.

### Specification

<b>Product Description</b>	Mouse polyclonal antibody raised against a full-length human AK1 protein.
<b>Immunogen</b>	AK1 (NP_000467.1, 1 a.a. ~ 194 a.a) full-length human protein.
<b>Sequence</b>	MEEKLKKTKIIFVVGPGSGKGTQCEKM/QKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQL VPLETVLDMRLDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLLK RGETSGRVDNNEETIKKRLETYKATEPVIAFYEKRGVIRKVN AEGSVDSVFSQVCTHLDALK
<b>Host</b>	Mouse
<b>Reactivity</b>	Human, Rat

<b>Interspecies Antigen Sequence</b>	Mouse (89); Rat (90)
<b>Quality Control Testing</b>	Antibody reactive against mammalian transfected lysate.
<b>Storage Buffer</b>	No additive
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

## Applications

- Western Blot (Tissue lysate)

AK1 MaxPab polyclonal antibody. Western Blot analysis of AK1 expression in rat brain.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of AK1 expression in transfected 293T cell line ([H00000203-T01](#)) by AK1 MaxPab polyclonal antibody.

Lane 1: AK1 transfected lysate(21.34 KDa).

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[Protocol Download](#)

## Gene Info — AK1

<b>Entrez GeneID</b>	<a href="#">203</a>
<b>GeneBank Accession#</b>	<a href="#">NM_000476.1</a>
<b>Protein Accession#</b>	<a href="#">NP_000467.1</a>
<b>Gene Name</b>	AK1
<b>Gene Alias</b>	-
<b>Gene Description</b>	adenylate kinase 1
<b>Omim ID</b>	<a href="#">103000</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three isozymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK2) and 3 (AK3). AK1 is found in the cytosol of skeletal muscle, brain and erythrocytes, whereas AK2 and AK3 are found in the mitochondria of other tissues including liver and heart. AK1 was identified because of its association with a rare genetic disorder causing nonspherocytic hemolytic anemia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme. [ provided by RefSeq

**Other Designations**

ATP-AMP transphosphorylase|OTTHUMP00000022217|OTTHUMP00000022218|myokinase

**Pathway**

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

**Disease**

- [Fetal Growth Retardation](#)