

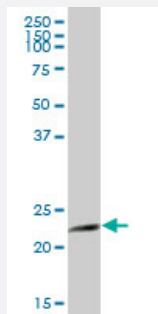
MaxPab®

# AK1 MaxPab mouse polyclonal antibody (B01)

Catalog # H00000203-B01

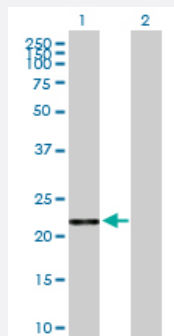
Size 50 uL

## 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

Product Description	Mouse polyclonal antibody raised against a full-length human AK1 protein.
Immunogen	AK1 (NP_000467.1, 1 a.a. ~ 194 a.a) full-length human protein.
Sequence	MEEKLKKTKIIFVVGPGSGKGTQCEKIQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQL VPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLLK RGETSGRVDNNEETIKKRLETYYKATEPVIAFYEKRGIVRKVNAEGSVDSVFSQVCTHLDALK
Host	Mouse
Reactivity	Human, Rat

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

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[Protocol Download](#)

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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

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