

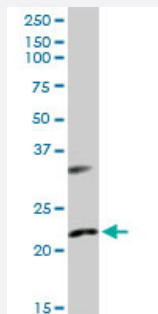
MaxPab®

AK1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000203-D01P

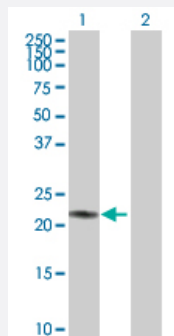
Size 100 ug

Applications



Western Blot (Cell lysate)

AK1 MaxPab rabbit polyclonal antibody. Western Blot analysis of AK1 expression in NIH/3T3.



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(21.60 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit 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	MEEKLKKTIIIFVVGPGSGKGTQCEKIQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQL VPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLK RGETSGRVDDNEETIKKRLETYYKATEPVIAFYEKRGIVRKVNAGSVDSVFSQVCTHLDALK
Host	Rabbit
Reactivity	Human, Mouse

Interspecies Antigen Sequence	Mouse (89); Rat (90)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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- Western Blot (Cell lysate)

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[Protocol Download](#)

- Western Blot (Transfected lysate)

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Gene Info — AK1

Entrez GeneID	203
GeneBank Accession#	NM_000476.1
Protein Accession#	NP_000467.1
Gene Name	AK1
Gene Alias	-
Gene Description	adenylate kinase 1
Omim ID	103000
Gene Ontology	Hyperlink

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](#)