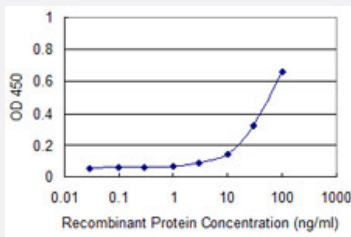


# ADK monoclonal antibody (M01), clone 4E7

Catalog # H00000132-M01

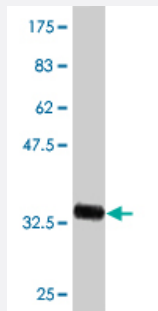
Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ADK is approximately 10ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.84 KDa) .

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against a partial recombinant ADK.
<b>Immunogen</b>	ADK (NP_001114, 236 a.a. ~ 345 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	FETKDIKEIAKKTQALPKMNSKRQRVIFTQGRDDTIMATESEVTAFVLDQDQKEIIDTNGAGDAFV GGFLSQLVSDKPLTECIRAGHYAASIIIRRTGCTFPEKPDFH
<b>Host</b>	Mouse
<b>Reactivity</b>	Human

<b>Interspecies Antigen Sequence</b>	Mouse (90); Rat (87)
<b>Isotype</b>	IgG2a Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ADK is approximately 10ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — ADK

<b>Entrez GeneID</b>	<a href="#">132</a>
<b>GeneBank Accession#</b>	<a href="#">NM_001123</a>
<b>Protein Accession#</b>	<a href="#">NP_001114</a>
<b>Gene Name</b>	ADK
<b>Gene Alias</b>	AK
<b>Gene Description</b>	adenosine kinase
<b>Omim ID</b>	<a href="#">102750</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes adenosine kinase, an abundant enzyme in mammalian tissues. The enzyme catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Alternative splicing results in two transcript variants encoding different isoforms. Both isoforms of the enzyme phosphorylate adenosine with identical kinetics and both require Mg<sup>2+</sup> for activity. [provided by RefSeq]

**Other Designations**

OTTHUMP00000019864|OTTHUMP00000019865|adenosine 5'-phosphotransferase

**Pathway**

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

**Disease**

- [Alzheimer Disease](#)
- [Cardiovascular Diseases](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fatigue](#)
- [Genetic Predisposition to Disease](#)
- [Sleep Disorders](#)
- [Sleep Initiation and Maintenance Disorders](#)
- [Tobacco Use Disorder](#)