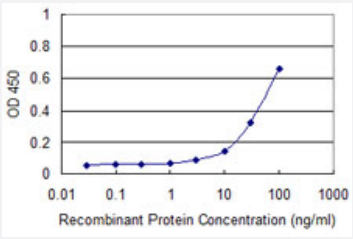
ADK monoclonal antibody (M01), clone 4E7

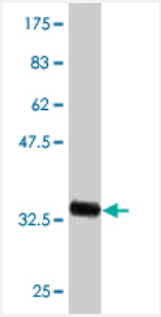
Catalog # H00000132-M01 Size 100 ug

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

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

Interspecies Antigen Sequence	Mouse (90); Rat (87)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	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

Entrez GeneID	132
GeneBank Accession#	NM_001123
Protein Accession#	NP_001114
Gene Name	ADK
Gene Alias	AK
Gene Description	adenosine kinase
Omim ID	102750
Gene Ontology	Hyperlink

Gene Summary	This gene encodes adenosine kinase, an abundant enzyme in mammalian tissues. The enzyme c atalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regul ator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Aden osine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems a nd inhibitors of the enzyme could play an important pharmacological role in increasing intravascul ar adenosine concentrations and acting as anti-inflammatory agents. Alternative splicing results in two transcript variants encoding different isoforms. Both isoforms of the enzyme phosphorylate ad enosine with identical kinetics and both require Mg2+ 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