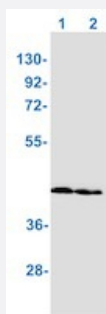


RecomAb™

ADK recombinant monoclonal antibody, clone R05-0G0

Catalog # RAB01767 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: PC-12 and Lane 2: Raw264.7 lysates with ADK recombinant monoclonal antibody, clone R05-0G0 (Cat # RAB01767).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ADK.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of human ADK.
Theoretical MW (kDa)	Calculated MW: 41 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1/50-1/100) Western Blot (1/500-1/1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at -20 °C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: PC-12 and Lane 2: Raw264.7 lysates with ADK recombinant monoclonal antibody, clone R05-0G0 (Cat # RAB01767).

- Immunohistochemistry

Gene Info — ADK

Entrez GeneID[132](#)**Protein Accession#**[P55263](#)**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 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 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](#)