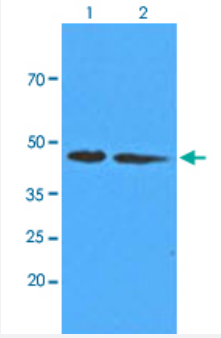
ADK monoclonal antibody, clone AT4F8

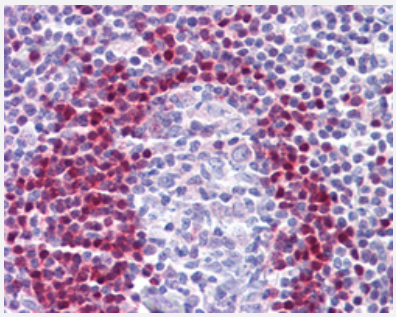
Catalog # MAB16188 Size 50 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: HepG2 and Lane 2: 293T cell lysates with ADK monoclonal antibody, clone AT4F8 (Cat # MAB16188).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with ADK monoclonal antibody, clone AT4F8 (Cat # MAB16188).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ADK.
Immunogen	Recombinant protein corresponding to human ADK.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa

Recommend Usage	ELISA Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5 ug/mL) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western Blot analysis of Lane 1: HepG2 and Lane 2: 293T cell lysates with ADK monoclonal antibody, clone AT4F8 (Cat # MAB16188).

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- Enzyme-linked Immunoabsorbent Assay

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 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