

Product datasheet for **AM09394PU-S**

ADK (22-362) Mouse Monoclonal Antibody [Clone ID: AT4F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT4F8
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	ELISA. Western blot (1:1000). Immunocytochemistry / Immunofluorescence. Flow cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human ADK (22-362aa) purified from <i>E. coli</i>
Specificity:	The antibody recognizes human Adenosine kinase at aa 22-362. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	adenosine kinase
Database Link:	Entrez Gene 132 Human P55263



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Background:

Adenosine kinase (ADK) is the key regulator of adenosine metabolism. Because of the manifold receptor-dependent actions of adenosine, tight regulation of adenosine levels is crucial. The intracellular and extracellular pools of adenosine are in dynamic exchange by equilibrative and concentrative nucleoside transporters, so extracellular concentrations of adenosine are regulated by interplay of these transporters with intracellular and extracellular enzymes of adenosine metabolism. Thus, the extracellular concentration of adenosine is enhanced by inhibition of equilibrative nucleoside transporters such as S-(4-nitrobenzyl)-6-thioinosine and cannabidiol and, stimulation of extracellular ATP breakdown and inhibition of intracellular adenosine removal.

Synonyms:

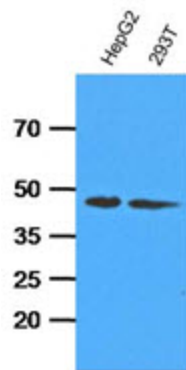
ADK, AK

Protein Families:

Druggable Genome

Protein Pathways:

Metabolic pathways, Purine metabolism

Product images:

Western blot analysis: The cell lysates (35 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ADK (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.