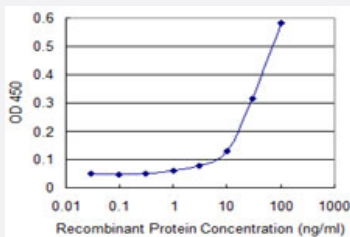


AK1 monoclonal antibody (M07), clone 4C2-1A8

Catalog # H00000203-M07

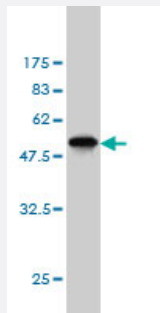
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AK1 is approximately 10ng/ml as a capture antibody.



Western Blot detection against Immunogen (47.08 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant AK1.

Immunogen

AK1 (AAH01116, 1 a.a. ~ 194 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MEEKLKKTNIIFVVGPGSGKGTQCEKMVKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQL
VPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLK
RGETSGRVDDNEETIKRLETTYKATEPVIAFYEKRGVIRKVNAEGSVDSVFSQVCTHLDALK

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (88); Rat (90)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (47.08 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

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AK1 is approximately 10ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — AK1

Entrez GeneID	203
GeneBank Accession#	BC001116
Protein Accession#	AAH01116
Gene Name	AK1
Gene Alias	-
Gene Description	adenylate kinase 1
Omim ID	103000
Gene Ontology	Hyperlink

Gene Summary

Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three isozymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK2) and 3 (AK3). AK1 is found in the cytosol of skeletal muscle, brain and erythrocytes, whereas AK2 and AK3 are found in the mitochondria of other tissues including liver and heart. AK1 was identified because of its association with a rare genetic disorder causing nonspherocytic hemolytic anemia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme. [provided by RefSeq]

Other Designations

ATP-AMP transphosphorylase|OTTHUMP00000022217|OTTHUMP00000022218|myokinase

Pathway

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

Disease

- [Fetal Growth Retardation](#)