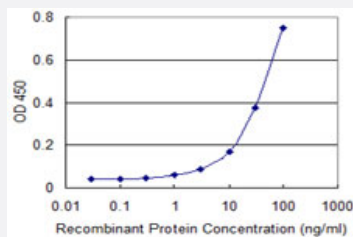


AK1 monoclonal antibody (M01), clone 3G8-1B11

Catalog # H00000203-M01

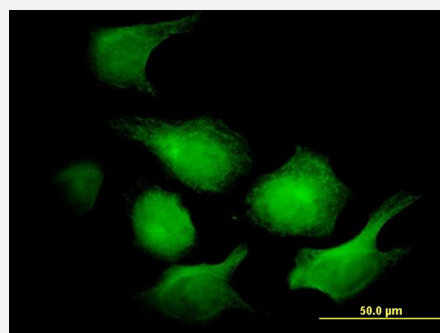
Size 100 ug

Applications



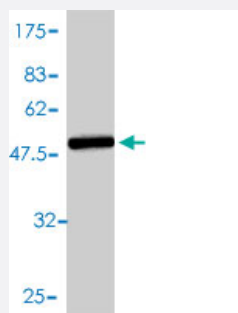
Sandwich ELISA (Recombinant protein)

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



Immunofluorescence

Immunofluorescence of monoclonal antibody to AK1 on HeLa cell. [antibody concentration 10 ug/ml]



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	MEEKLKKTNIIFVVGPGSGKGTQCEKMQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQL VPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEFERRIGQPTLLLYVDAGPETMTQRLLK RGETSGRVDDNEETIKRLETTYKATEPVIAFYEKRGIVRKVNAEGSVDSVFSQVCTHLDALK
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

- Immunofluorescence

Immunofluorescence of monoclonal antibody to AK1 on HeLa cell. [antibody concentration 10 ug/ml]

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](#)