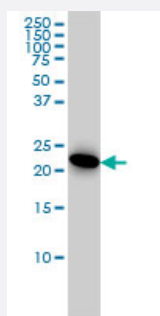


AK1 monoclonal antibody (M06), clone 3A6-1F5

Catalog # H00000203-M06

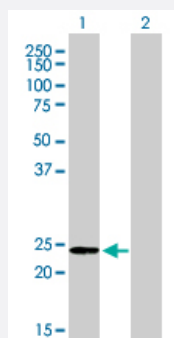
Size 100 ug

Applications



Western Blot (Cell lysate)

AK1 monoclonal antibody (M06), clone 3A6-1F5 Western Blot analysis of AK1 expression in HeLa (Cat # L013V1).

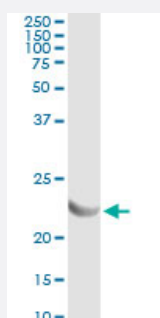


Western Blot (Transfected lysate)

Western Blot analysis of AK1 expression in transfected 293T cell line by AK1 monoclonal antibody (M06), clone 3A6-1F5.

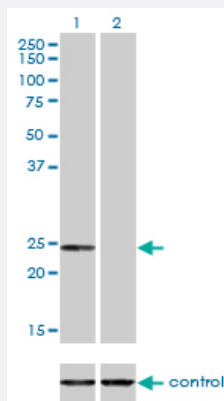
Lane 1: AK1 transfected lysate(21.6 KDa).

Lane 2: Non-transfected lysate.



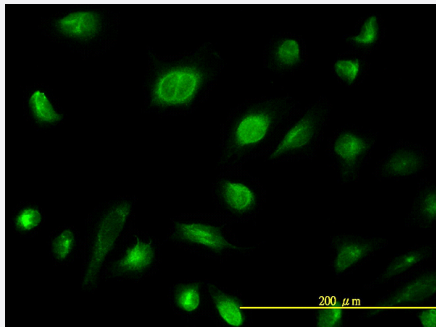
Immunoprecipitation

Immunoprecipitation of AK1 transfected lysate using anti-AK1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with AK1 MaxPab rabbit polyclonal antibody.



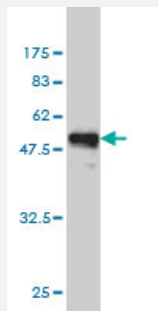
RNAi Knockdown (Antibody validated)

Western blot analysis of AK1 over-expressed 293 cell line, cotransfected with AK1 Validated Chimera RNAi (Cat # H00000203-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with AK1 monoclonal antibody (M06), clone 3A6-1F5 (Cat # H00000203-M06). GAPDH (36.1 kDa) used as specificity and loading control.



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	MEEKLKKTNIIFVVGPGSGKGTQCEKIQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQL VPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLLK RGETSGRVDDNEETIKKRLETYYKATEPVIAFYEKRGIVRKVNAGSVDSVFSQVCTHLDALK
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 (Cell lysate)

AK1 monoclonal antibody (M06), clone 3A6-1F5 Western Blot analysis of AK1 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of AK1 expression in transfected 293T cell line by AK1 monoclonal antibody (M06), clone 3A6-1F5.

Lane 1: AK1 transfected lysate(21.6 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of AK1 transfected lysate using anti-AK1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with AK1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of AK1 over-expressed 293 cell line, cotransfected with AK1 Validated Chimera RNAi (Cat # H00000203-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with AK1 monoclonal antibody (M06), clone 3A6-1F5 (Cat # H00000203-M06). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- 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](#)