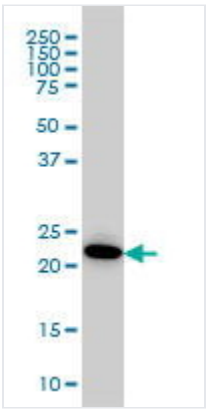
AK1 Antibody – Mouse Monoclonal

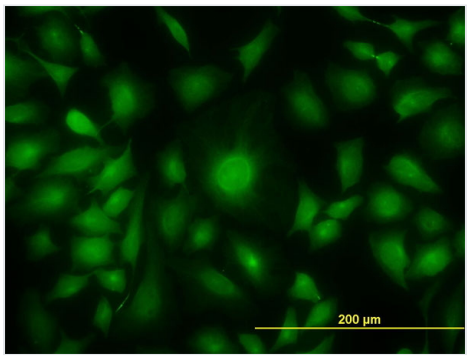
PRODUCT OVERVIEW

Product Name	AK1, Monoclonal Antibody
Full Product Name	AK1 (Adenylate Kinase 1) (FITC)
Product Gene Name	anti-AK1 antibody
Product Synonym Names	Adenylate Kinase 1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	M1
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes AK1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor Further dilutions can be made in assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	AK1 (AAH01116, 1aa-194aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MEEKLKKTNIIFVVGGPGSGKGTQCEKIVQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQLVPLETVLDMLRDAMVAKVNTSKGFLIDGYPREVQ
Conjugate	FITC
Product Categories/Family for anti-AK1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-AK1 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-AK1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-AK1 antibody	Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate (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 hemolytic anemia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme. [provided by RefSeq]
Other Notes	Small volumes of anti-AK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar dry ice and additional dry ice fee may apply.

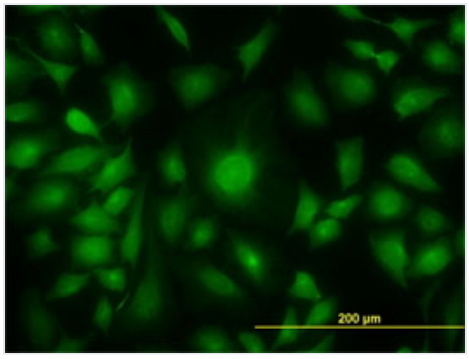
Searchable Terms for AK1 purchase	MBS6175183 is an antibody targeting AK1. Also known as AK1 (Adenylate Kinase 1) (FITC). Host: Mouse.



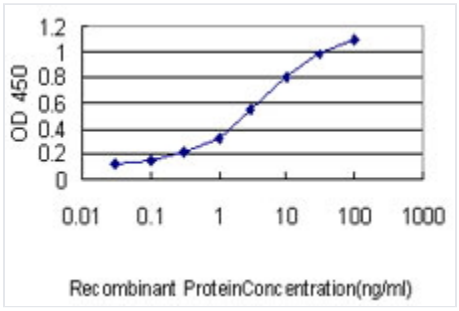
Western Blot (WB) of anti-AK1 antibody
AK1 monoclonal antibody (M08), clone M1 Western Blot analysis of AK1 expression in HeLa (Cat # L013V1).



Immunofluorescence (IF) of anti-AK1 antibody
Immunofluorescence of monoclonal antibody to AK1 on HeLa cell. [antibody concentration 20 ug/ml]



Immunofluorescence (IF) of anti-AK1 antibody
Immunofluorescence of monoclonal antibody to AK1 on HeLa cell. [antibody concentration 20 ug/ml]



Testing Data of anti-AK1 antibody
Detection limit for recombinant GST tagged AK1 is approximately 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AK1. It may not necessarily be applicable to this product.

NCBI GI #	12654563
NCBI GeneID	203
NCBI Accession #	AAH01116
UniProt Related Accession #	P00568
NCBI Official Full Name	Adenylate kinase 1
NCBI Official Synonym Full Names	adenylate kinase 1
NCBI Official Symbol	AK1
NCBI Official Synonym Symbols	HTL-S-58j
Protein Family	Adenylate kinase
NCBI Protein Information	adenylate kinase isoenzyme 1

NCBI Summary for AK1	This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]
Research Articles on AK1	**1.** Case Reports: first case of adenylate kinase deficiency in Indian population due to novel AK1 mutations (c.71A>G and c.413G>A) associated with nonspherocytic haemolytic anaemia without psychomotor impairment.
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