Mouse AK4 Monoclonal Antibody | anti-AK4 antibody

AK4 antibody

CATALOG #	HOST	APPLICATIONS
AAA106543	**Mouse**	**Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

AK4; Monoclonal Antibody; AK4 antibody; Monoclonal AK4; Anti-AK4; Adenylate kinase 4; AK3L1; AK3L2; MGC166959; AK 4; AK-4; anti-AK4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3B1
Purity/Purification	AK4 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	223
Applicable Applications for anti-AK4 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	AK4 (adenylate kinase 4) is a member of the adenylate kinase family of enzymes. This protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Inherited mutations leading to AK4 deficiencies in erythrocytes have been implicated in hemolytic anemia.
Cross-Reactivity	Human, Dog, Rat, Monkey, Mouse
Immunogen	AK4 antibody was raised in mouse using a full length recombinant protein of human AK4 (NP_037542) produced in HEK293 cell as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

IF (Immunofluorescence)
Immunofluorescent staining of COS7 cells transiently transfected with recombinant AK4 protein using AK4 antibody

IHC (Immunohiostchemistry)
Immunohistochemical analysis of AK4 protein in paraffin embedded Human colon tissue using AK4 antibody

WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant AK4 protein (Right) or empty vector (Left) detected with AK4 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-AK4 antibody	Mouse monoclonal AK4 antibody
Product Categories/Family for anti-AK4 antibody	Proteases; Inhibitors; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	8051579
NCBI GeneID	205
NCBI Accession #	NP_037542
NCBI GenBank Nucleotide #	NM_013410.3
UniProt Accession #	P27144; Q6IBH4; Q6NXQ5; Q8IUU9; B2R927; D3DQ62
Molecular Weight	25,268 Da
NCBI Official Full Name	adenylate kinase 4, mitochondrial
NCBI Official Synonym Full Names	adenylate kinase 4
NCBI Official Symbol	AK4
NCBI Official Synonym Symbols	AK3; AK 4; AK3L1; AK3L2
NCBI Protein Information	adenylate kinase 4, mitochondrial
UniProt Protein Name	Adenylate kinase 4, mitochondrial
UniProt Gene Name	**AK4**
UniProt Synonym Gene Names	AK 4
UniProt Entry Name	KAD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/ak4-antibody-clone-3b1-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/106543