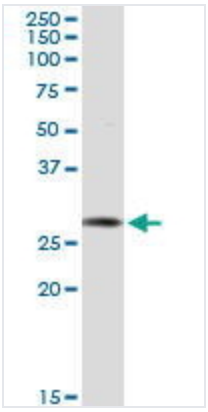
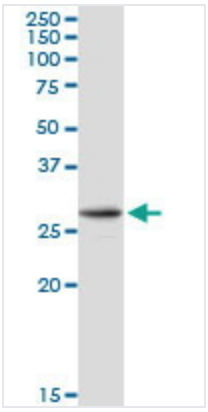
AK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

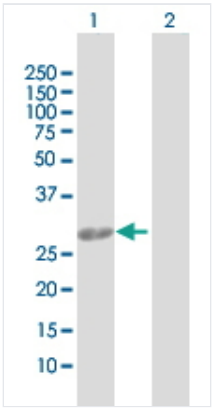
Product Name	AK2, Polyclonal Antibody
Full Product Name	AK2 (Adenylate Kinase Isoenzyme 2, AK 2, ATP-AMP Transphosphorylase 2, ADK2) APC
Product Gene Name	anti-AK2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human AK2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo removing the cap.
Molecular Weight	21,636 Da
Immunogen	Full length human AK2, aa1-239 (NP_001616.1).
Immunogen Sequence	MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKKLKATMDAGKLVSDEMVVELIEKNLETPLCKNGFLLDG
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-AK2 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-AK2 antibody	Western Blot (WB)
Application Notes for anti-AK2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-AK2 antibody	Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups in the mitochondrial intermembrane space and may play a role in apoptosis.
Other Notes	Small volumes of anti-AK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar
Searchable Terms for AK2 purchase	MBS6369210 is an antibody targeting AK2. Also known as AK2 (Adenylate Kinase Isoenzyme 2, AK 2, ATP-AMP Transphosphorylase 2, ADK2) APC.



Western Blot (WB) of anti-AK2 antibody
AK2 rabbit polyclonal antibody. Western Blot analysis of AK2 expression in human kidney.



Western Blot (WB) of anti-AK2 antibody
AK2 rabbit polyclonal antibody. Western Blot analysis of AK2 expression in mouse kidney.



Western Blot (WB) of anti-AK2 antibody
Western Blot analysis of AK2 expression in transfected 293T cell line by AK2 polyclonal antibody. Lane 1: AK2 transfected lysate (26.5kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AK2. It may not necessarily be applicable to this product.

NCBI GI #	4502013
NCBI GeneID	204
NCBI Accession #	NP_001616.1
UniProt Secondary Accession #	Q16856; Q5EB54; Q5TIF7; Q8TCY2; Q8TCY3; A8K6L1; B4DHH7; B4DL64
UniProt Related Accession #	P54819
GenBank Nucleotide #	NM_001625.2
NCBI Official Full Name	adenylate kinase 2, mitochondrial isoform a
NCBI Official Synonym Full Names	adenylate kinase 2
NCBI Official Symbol	AK2
NCBI Official Synonym Symbols	ADK2
NCBI Protein Information	adenylate kinase 2, mitochondrial

NCBI Summary for AK2	Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1 and 2.[provided by RefSeq, Nov 2010]
Research Articles on AK2	**1.** AK2 deficiency compromises the mitochondrial energy metabolism required for differentiation of human neutrophil and lymphoid lineages.
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