

ARG59579
anti-AK2 antibodyPackage: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes AK2
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	AK2
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-232 of Human AK2 (NP_001616.1).
Conjugation	Un-conjugated
Alternate Names	ADK2; Adenylate kinase 2, mitochondrial; ATP-AMP transphosphorylase 2; ATP:AMP phosphotransferase; Adenylate monophosphate kinase; EC 2.7.4.3; AK 2

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat liver, Mouse kidney and HL-60	
Observed Size	26 kDa	

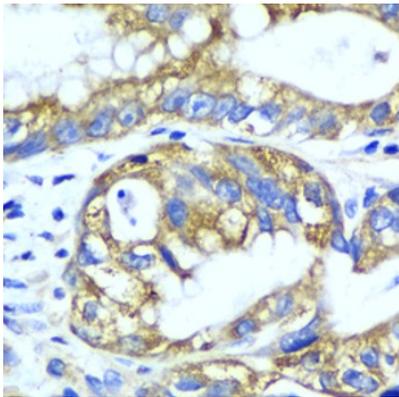
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

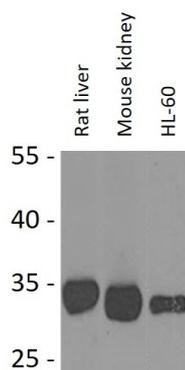
Gene Symbol	AK2
Gene Full Name	adenylate kinase 2
Background	Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have 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]
Function	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. Adenylate kinase activity is critical for regulation of the phosphate utilization and the AMP de novo biosynthesis pathways. Plays a key role in hematopoiesis. [UniProt]
Calculated Mw	26 kDa
Cellular Localization	Mitochondrion intermembrane space. [UniProt]

Images



ARG59579 anti-AK2 antibody IHC-P image

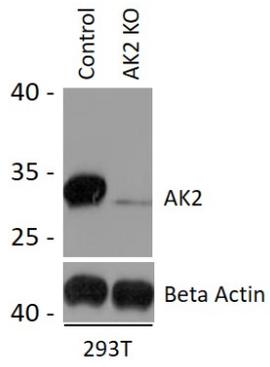
Immunohistochemistry: Paraffin-embedded Human gastric cancer stained with ARG59579 anti-AK2 antibody at 1:100 dilution.



ARG59579 anti-AK2 antibody WB image

Western blot: 25 µg of Rat liver, Mouse kidney and HL-60 cell lysates stained with ARG59579 anti-AK2 antibody at 1:1000 dilution.

ARG59579 anti-AK2 antibody WB image



Western blot: 25 µg of extracts from normal (control) and AK2 knockout (KO) 293T cells stained with ARG59579 anti-AK2 antibody at 1:1000 dilution.