

Rabbit anti-Rat Adenylate Kinase 1 Polyclonal Antibody | anti-AK1 antibody

Anti-Adenylate Kinase 1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257337	Rabbit	Rat	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

Adenylate Kinase 1; Polyclonal Antibody; Anti-Adenylate Kinase 1 Antibody; Rabbit Polyclonal; AK1/Adenylate kinase 1 Antibody; Rabbit PAb; Antigen Affinity Purified; adenylate kinase 1; anti-AK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rat AK1/Adenylate kinase 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-AK1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Rat AK1/Adenylate kinase 1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Rat AK1/Adenylate kinase 1 (rR AK1/Adenylate kinase 1). AK1/Adenylate kinase 1 specific IgG was purified by Rat AK1/Adenylate kinase 1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

ratAK1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 2 uL anti-ratAK1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-ratAK1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 22 kDa. Observed band size: 22 kDa.



WB (Western Blot)

Anti-AK1 rabbit polyclonal antibody at 1:500 dilution. Lane A: Rat Heart tissue lysate. Lane B: Rat Brain tissue lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 22 kDa. Observed band size: 22 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AK1 antibody	The adenylate kinase (AK) isoforms network plays an important role in the intracellular energy transfer processes, the maintenance of energy homeostasis, and it is a major player in AMP metabolic signaling circuits in some highly-differentiated cells. Three other biomarkers (AK1, CLIC1, and SOD1) were significantly increased in both adenoma and early colorectal cancer patient plasma samples and in plasma from colorectal cancer mouse models at preclinical stages compared with controls.Which can contribute to the detection of early-stage colorectal cancer and adenomas.
References	Lu Q, et al. (1996) Adenylate kinase complements nucleoside diphosphate kinase deficiency in nucleotide metabolism. Proc Natl Acad Sci. 93 (12): 5720-5.Dzeja P, et al. (2009) Adenylate kinase and AMP signaling networks: Metabolic monitoring, signal communication and body energy sensing. Int J Mol Sci. 10 (4): 1729-72.Lagresle-Peyrou C, et al. (2008) Human adenylate kinase 2 deficiency causes a profound hematopoietic defect associated with sensorineural deafness. Nature Genetics. 41: 106-11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61889092
NCBI GeneID	24183
NCBI Accession #	NP_077325.2
NCBI GenBank Nucleotide #	NM_024349.3
UniProt Accession #	P39069; Q5EBC5; Q9JJN3
Molecular Weight	21,584 Da
NCBI Official Full Name	adenylate kinase isoenzyme 1
NCBI Official Synonym Full Names	adenylate kinase 1
NCBI Official Symbol	Ak1
NCBI Official Synonym Symbols	Ak 1
NCBI Protein Information	adenylate kinase isoenzyme 1
UniProt Protein Name	Adenylate kinase isoenzyme 1
UniProt Gene Name	AK1
UniProt Synonym Gene Names	AK 1

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adenylate-kinase-1-antibody-immunoprecipitation-western-blot-elisa/257337>