

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

Anti-Adenylate Kinase 1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255576	Rabbit	Human	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-HTL-S-58j Antibody; anti-AK1 antibody

PRODUCT SPECIFICATIONS

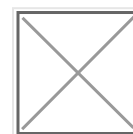
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human AK1/Adenylate kinase 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-AK1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human AK1/Adenylate kinase 1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human AK1/Adenylate kinase 1 (rh AK1/Adenylate kinase 1). AK1/Adenylate kinase 1 specific IgG was purified by Human 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



WB (Western Blot)

Anti-3C-AK1 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 22 kDa Observed band size: 22 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

AK1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate Lane B: 0.5 mg Hela Whole Cell Lysate 2 uL anti-AK1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-AK1 rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey 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 #	12654563
NCBI GeneID	203
Molecular Weight	21,635 Da
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
NCBI Protein Information	adenylate kinase isoenzyme 1

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/polyclonal/adenylate-kinase-1-antibody-immunoprecipitation-western-blot-elisa/255576>