

Datasheet for ABIN2855826

anti-AK4 antibody

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	AK4
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Adenylate kinase 4. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit Polyclonal antibody to Adenylate kinase 3 (adenylate kinase 3-like 1) Adenylate kinase 3 antibody [N1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	AK4
Alternative Name:	adenylate kinase 4 (AK4 Products)

Target Details

Background: This gene encodes a member of the adenylate kinase family of enzymes. The encoded 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. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1.

Cellular Localization: Mitochondrion matrix

Molecular Weight: 25 kDa

Gene ID: 205

UniProt: [P27144](#)

Pathways: [Nucleotide Phosphorylation](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Positive Control: 293T , A431 , H1299 , HeLaS3 , HepG2 , Raji

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: 0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal

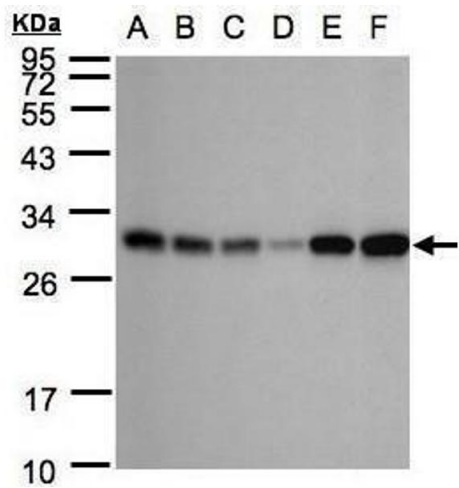
Preservative: Thimerosal (Merthiolate)

Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

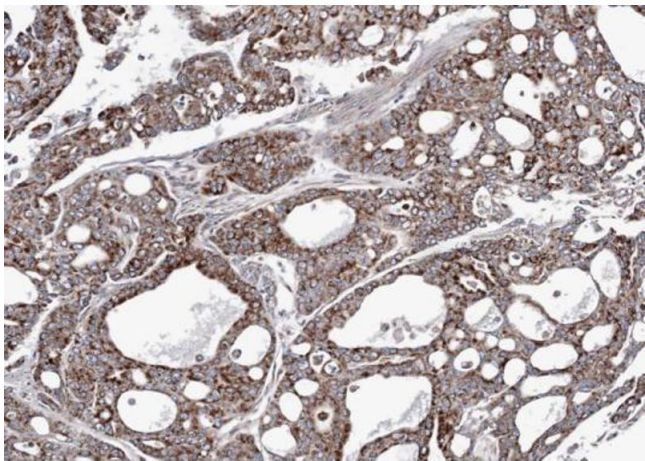
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage

(1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



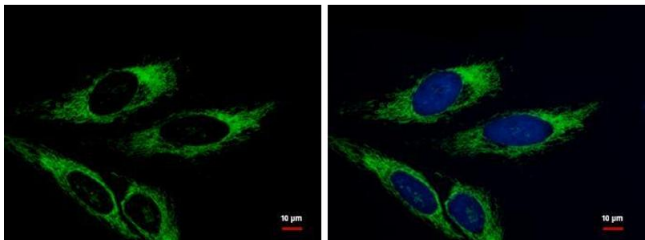
Western Blotting

Image 1. WB Image Sample(30 ug whole cell lysate) A: 293T B: A431 , C: H1299 D: HeLa S3 , E: Hep G2 , F: Raji , 12% SDS PAGE antibody diluted at 1:1000



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded gastric cancer N87 xenograft, using AK3L1, antibody at 1:100 dilution.



Immunofluorescence

Image 3. ICC/IF Image Adenylate kinase 3 antibody [N1C3] detects Adenylate kinase 3 protein at mitochondria by immunofluorescent analysis. Sample: HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37°C for 30 min. Green: Adenylate kinase 3 protein stained by Adenylate kinase 3 antibody [N1C3] , diluted at 1:500. Blue: Hoechst 33342 staining.