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Datasheet for ABIN392742

## anti-Adenylate Kinase 2 antibody (C-Term)

3 Images

1 Publication

### Overview

Quantity:	400 µL
Target:	Adenylate Kinase 2 (AK2)
Binding Specificity:	AA 187-217, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	This AK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 187-217 amino acids from the C-terminal region of human AK2.
Clone:	RB3896
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

### Target Details

Target:	Adenylate Kinase 2 (AK2)
Alternative Name:	AK2 ( <a href="#">AK2 Products</a> )
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. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes

## Target Details

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is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis.

Molecular Weight: 26478

Gene ID: 204

NCBI Accession: [NP\\_001186128](#), [NP\\_001616](#), [NP\\_037543](#)

UniProt: [P54819](#)

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

## Application Details

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Application Notes: WB: 1:2000. WB: 1:2000. IHC-P: 1:50~100

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

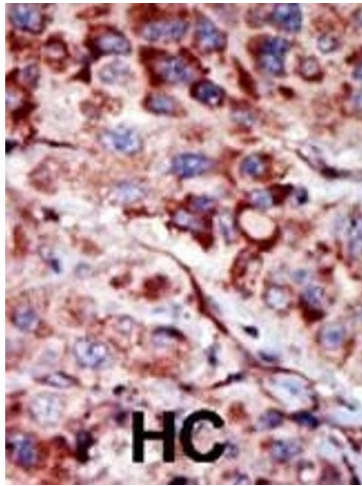
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

## Publications

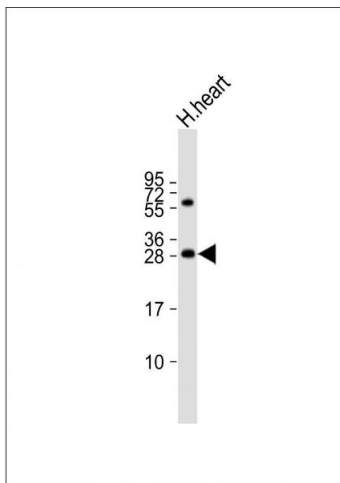
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Product cited in: Sadeghi, Ullenhag, Wagenius, Tötterman, Eriksson: "Rapid expansion of T cells: Effects of culture and cryopreservation and importance of short-term cell recovery." in: **Acta oncologica (Stockholm, Sweden)**, Vol. 52, Issue 5, pp. 978-86, (2013) ([PubMed](#)).



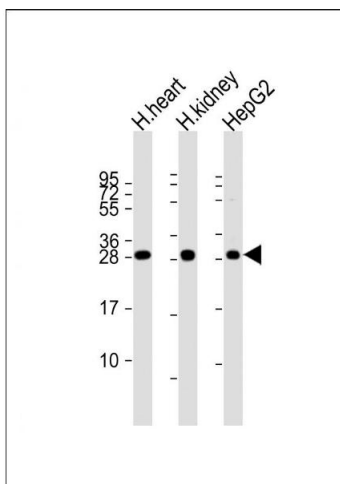
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



### Western Blotting

**Image 2.** Anti-AK2 Antibody (C-term) at 1:2000 dilution + human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.



### Western Blotting

**Image 3.** All lanes : Anti-AK2 Antibody (C-term) at 1:2000 dilution Lane 1: human heart lysate Lane 2: human kidney lysate Lane 3: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.