

Datasheet for ABIN7265467

**anti-AK4 antibody**

3 Images

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## Overview

Quantity:	100 µL
Target:	AK4
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This AK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Purpose:	Adenylate kinase 4 Rabbit mAb
Immunogen:	A synthesized peptide derived from human Adenylate kinase 4.
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

## Target Details

Target:	AK4
Alternative Name:	Adenylate kinase 4 ( <a href="#">AK4 Products</a> )
Background:	This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein

## Target Details

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.,AK4, AK 4, AK3, AK3L1, AK3L2, adenylate kinase 4,Signal Transduction,Kinase,Adenylate kinase 4

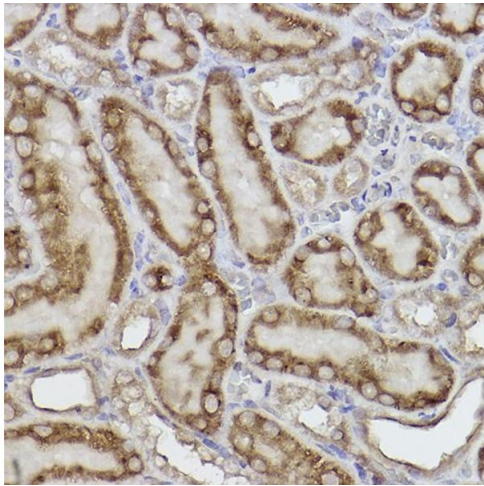
Molecular Weight:	25kDa
Gene ID:	205
UniProt:	<a href="#">P27144</a>
Pathways:	<a href="#">Nucleotide Phosphorylation</a> , <a href="#">Ribonucleoside Biosynthetic Process</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

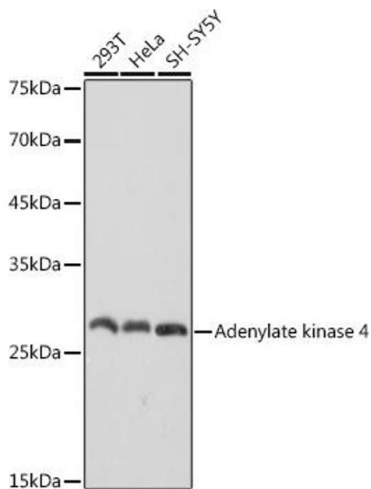
## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



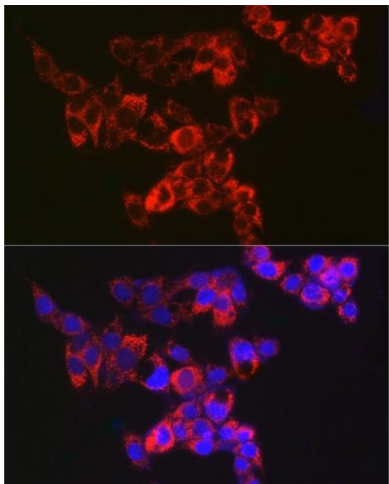
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded rat kidney using Adenylate kinase 4 Rabbit mAb (ABIN7265467) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using Adenylate kinase 4 antibody (ABIN7265467) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of HepG2 cells using Adenylate kinase 4 Rabbit mAb (ABIN7265467) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.