

# AK4 Rabbit pAb

Catalog No.: A2050

## Basic Information

**Observed MW**

27kDa

**Calculated MW**

25kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse, Rat

## 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.

## Recommended Dilutions

**WB** 1:500 - 1:2000**IF/ICC** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

205

**Swiss Prot**

P27144

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-223 of human AK4 (NP\_037542.1).

**Synonyms**

AK3; AK 4; AK3L1; AK3L2; AK4

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

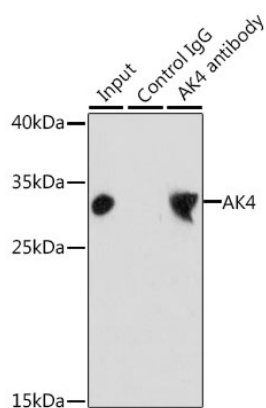
Affinity purification

**Storage**

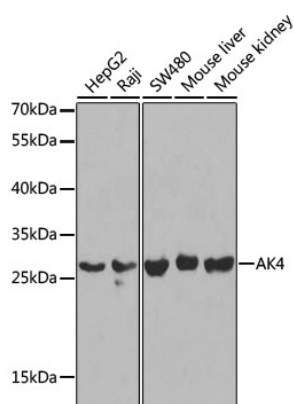
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

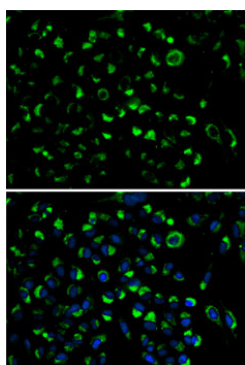
## Validation Data



Immunoprecipitation analysis of 200 µg extracts of HepG2 cells, using 3 µg AK4 antibody (A2050). Western blot was performed from the immunoprecipitate using AK4 antibody (A2050) at a dilution of 1:1000.



Western blot analysis of various lysates using AK4 Rabbit pAb (A2050) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.



Immunofluorescence analysis of HeLa cells using AK4 Rabbit pAb (A2050). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.