

## Anti-AK4 antibody

<b>Cat. No.</b>	ml262884
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-AK4 rabbit polyclonal antibody
<b>Applications</b>	ELISA, WB, IHC
<b>Immunogen</b>	Synthetic peptide of human AK4
<b>Reactivity</b>	Human, Mouse, Rat
<b>Content</b>	0.9 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	AK4
<b>Full name</b>	adenylate kinase 4

**Synonyms** AK3; AK 4; AK3L1; AK3L2

**Swissprot** P27144

#### **Target 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.

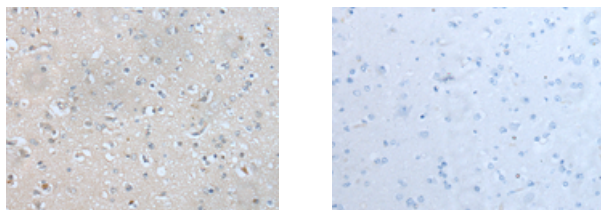
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human brain

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using ml262884(AK4 Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 25 kDa

Positive control: MCF-7 cell and mouse kidney tissue lysates

Recommended dilution: 200-1000

Gel: 12%SDS-PAGE

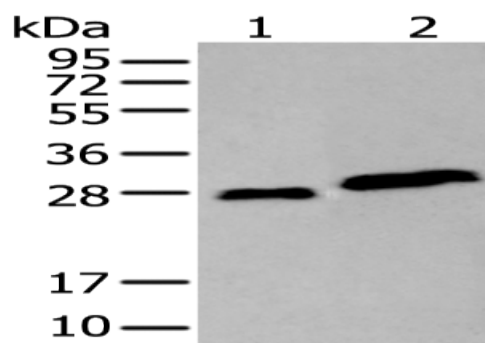
Lysate: 40 µg

Lane 1-2: MCF-7 cell and mouse kidney tissue lysates

Primary antibody: ml262884(AK4 Antibody) at dilution 1/300

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 15 seconds



#### ELISA

Recommended dilution: 5000-10000

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