

## Product datasheet for **TA371795**

### AK3L1 (AK4) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: MCF-7 cell and mouse kidney tissue lysates IHC: 25-100 Positive control: Human brain Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human AK4
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	25 kDa
Gene Name:	adenylate kinase 4
Database Link:	<a href="#">Entrez Gene 205 Human P27144</a>



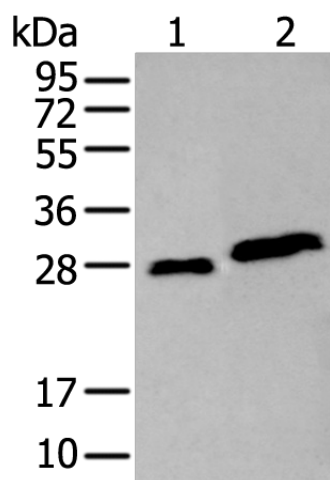
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**Background:**

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.

**Synonyms:**

Ak-3; Ak-4; Ak3; Ak3l1; Ak3l2; D4Ert274e

**Product images:**

Gel: 12%SDS-PAGE

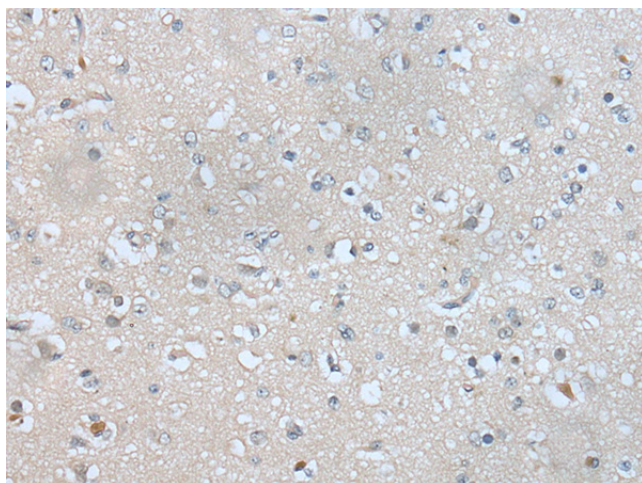
Lysate: 40  $\mu$ g

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

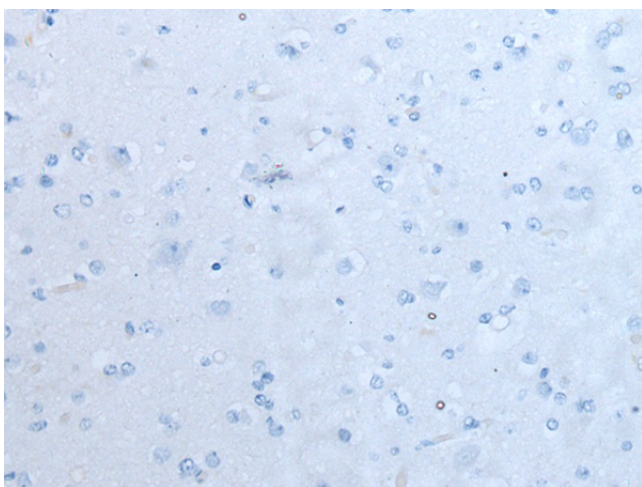
Primary antibody: TA371795 (AK4 Antibody) at dilution 1/300

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

Exposure time: 15 seconds



Immunohistochemistry of paraffin-embedded Human brain tissue using TA371795 (AK4 Antibody) at dilution 1/30 (Original magnification:  $\times$ 200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA371795 (AK4 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification:  $\times 200$ )