

## AK1 Polyclonal Antibody

**Catalog No.** E-AB-64651

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

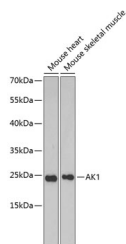
### Description

|                     |                                                 |
|---------------------|-------------------------------------------------|
| <b>Reactivity</b>   | Human,Mouse,Rat                                 |
| <b>Immunogen</b>    | Recombinant fusion protein of human AK1         |
| <b>Host</b>         | Rabbit                                          |
| <b>Isotype</b>      | IgG                                             |
| <b>Purification</b> | Affinity purification                           |
| <b>Conjugation</b>  | Unconjugated                                    |
| <b>Buffer</b>       | PBS with 0.02% sodium azide,50% glycerol,pH7.3. |

### Applications Recommended Dilution

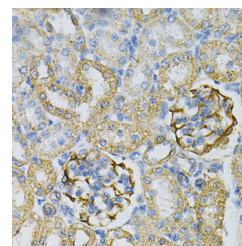
|            |              |
|------------|--------------|
| <b>WB</b>  | 1:500-1:2000 |
| <b>IHC</b> | 1:50-1:200   |

### Data

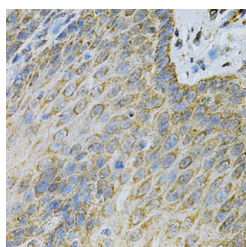


Western blot analysis of extracts of various cell lines using AK1 Polyclonal Antibody at 1:1000 dilution.

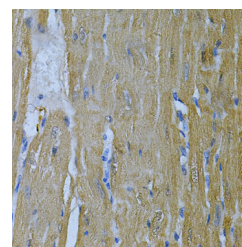
**Observed Mw:22kDa**  
**Calculated Mw:21kDa**



Immunohistochemistry of paraffin-embedded rat kidney using AK1 Polyclonal Antibody at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human esophagus using AK1 Polyclonal antibody at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse heart using AK1 Polyclonal antibody at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

### For Research Use Only

## Preparation & Storage

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

## Background

This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.

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