

For Research Use Only

AK1 Recombinant antibody

Catalog Number: 85979-3-RR



Basic Information

Catalog Number:

85979-3-RR

Concentration:

1000 μ g/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6890

GenBank Accession Number:

BC001116

GeneID (NCBI):

203

UNIPROT ID:

P00568

Full Name:

adenylate kinase 1

Calculated MW:

22 kDa

Observed MW:

22 kDa

Purification Method:

Protein A purification

CloneNo.:

250557D10

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse heart tissue, HeLa cells, K-562 cells, A172 cells, rat heart tissue, human heart tissue

Background Information

AK1 (Adenylate kinase isoenzyme 1), also known as ATP-AMP transphosphorylase 1. It is located in cytoplasm. This protein 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. Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP 1. Exhibits nucleoside diphosphate kinase activity, catalyzing the production of ATP, CTP, GTP, UTP, dATP, dCTP, dGTP and dTTP from the corresponding diphosphate substrates with either ATP or GTP as phosphate donor 2. Also catalyzes at a very low rate the synthesis of thiamine triphosphate (ThTP) from thiamine diphosphate (ThDP) and ADP. The molecular weight of AK1 is 22 kDa.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

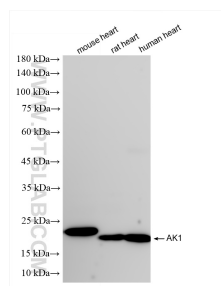
T: 4006900926

E: Proteintech-CN@ptglab.com

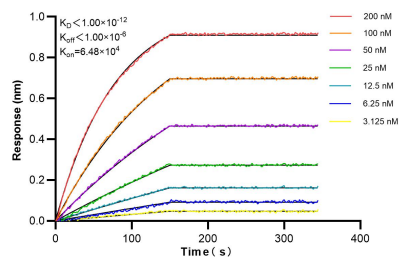
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85979-3-RR (AK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85979-3-RR against Human AK1 were performed. The affinity constant is below 1 pM.