

Rabbit Anti-AMPK alpha-1 antibody

SL41337R

Product Name AMPK alpha-1

Chinese Name 腺苷单磷酸活化蛋白激酶 α 1 抗体

Alias AMPK alpha-1; 5 AMP activated protein kinase alpha 1 catalytic subunit; 5 AMP activated protein kinase catalytic alpha 1 chain; 5' AMP activated protein kinase catalytic subunit alpha 1; AAPK1; acetyl CoA carboxylase kinase; AI194361; AI450832; AL024255; AMP -activate kinase alpha 1 subunit; AMP-activated protein kinase, catalytic, alpha -1; AMPK 1; AMPK alpha 1 chain; AMPK; AMPK1; AMPKa1; AMPKalpha1; C130083N04Rik; cb116; EC 2.7.11.1; HMG CoA reductase kinase; hormone sensitive lipase kinase; im:7154392; kinase AMPK alpha1; MGC33776; MGC57364; PRKAA 1; PRKAA1; Protein kinase AMP activated alpha 1 catalytic subunit; SNF1-like protein AMPK; wu:fa94c10; AAPK1_HUMAN; AMPK α 1; AMPK α 1; AMPK α 1; AMPK α 1; AMPK AMPK- α 1; AMPK- α -1; α -1; AMPK-a; AMPK a1.

Research Area Cell biology Neurobiology Kinases and Phosphatases Alzheimer's

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, (predicted: Mouse, Rat,)
WB=1:500-2000,ELISA=1:5000-10000

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 64kDa

Cellular localization The nucleus cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human AMPK alpha-1 protein : 1-207/559

Lsotype IgG

Purification affinity purified by Protein A

**Attention**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

SWISS:

Q13131

Gene ID:

5562

Database links:

**Product
Detail**

[Entrez Gene: 5562](#) Human

[Entrez Gene: 105787](#) Mouse

[Entrez Gene: 65248](#) Rat

[Omim: 602739](#) Human

[SwissProt: Q13131](#) Human

[SwissProt: Q5EG47](#) Mouse

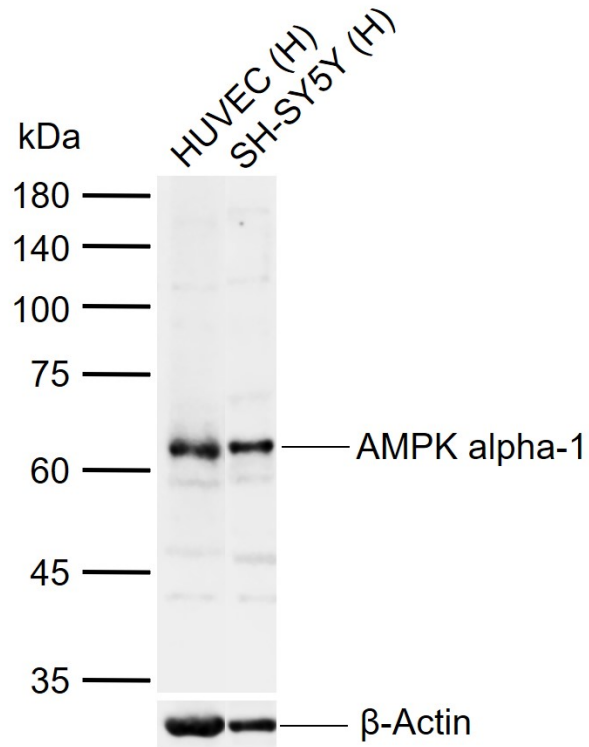
[SwissProt: P54645](#) Rat

[Unigene: 43322](#) Human

[Unigene: 207004](#) Mouse

[Unigene: 87789](#) Rat

**Product
Picture**



Sample:

Lane 1: Human HUVEC cell lysates

Lane 2: Human SH-SY5Y cell lysates

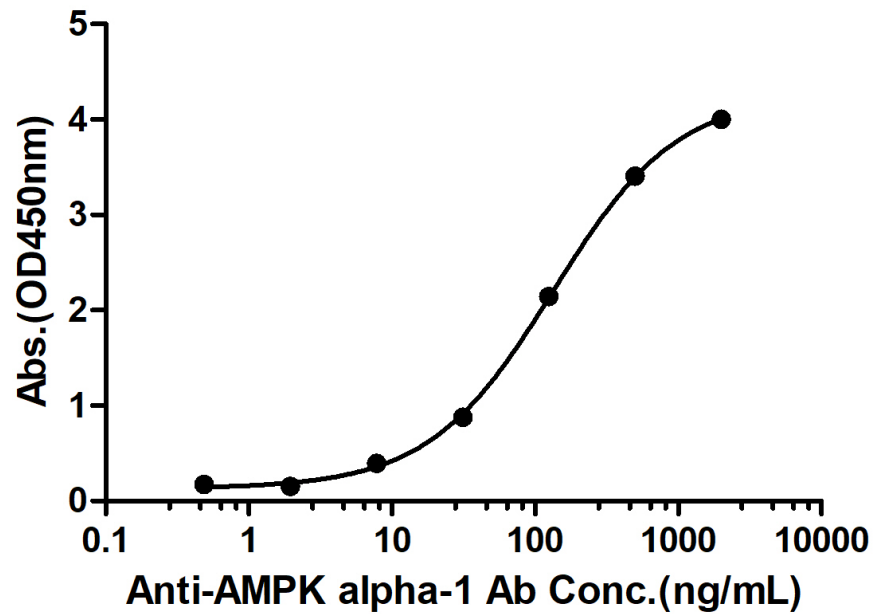
Primary: Anti-AMPK alpha-1 (SL41337R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kDa

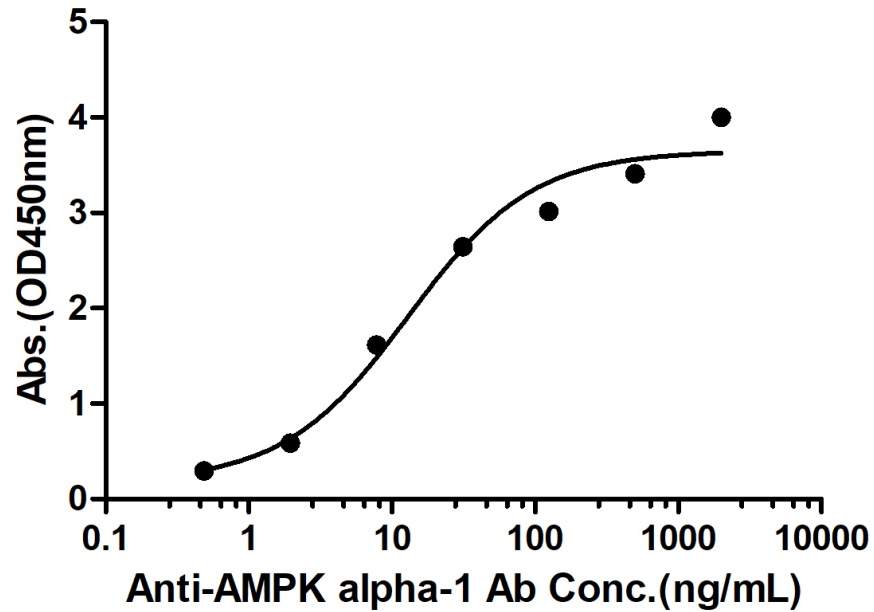
Observed band size: 64 kDa

Rabbit Anti-Human AMPK alpha-1 Antibody Bind with Human AMPK alpha-1 protein, His Tag



Measured by its binding ability in a indirect ELISA. Immobilized Human AMPK alpha-1 protein, His Tag (Cat. SL41337P) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Rabbit Anti-Human AMPK alpha-1 Antibody, the EC50 is 133.7 ng/mL.

Rabbit Anti-Human AMPK alpha-1 Antibody Bind with Human AMPK alpha-1 protein, His Tag



Measured by its binding ability in a indirect ELISA. Immobilized Human AMPK alpha-1 protein, His Tag (Cat. SL41337P) at 2 μ g/mL (100 μ L/well) can bind Rabbit Anti-Human AMPK alpha-1 Antibody, the EC50 is 13.01 ng/mL.