

AMPK alpha 1/2(Phospho Thr183/172) Polyclonal Antibody

Description

Product type Primary Antibody

Code BT-AP00285

Host Rabbit

Isotype IgG

Size 100ul, 50ul, 20ul

Immunogen The antiserum was produced against synthesized peptide derived from human AMPK alpha around the

phosphorylation site of Thr172. AA range:140-189

Mol wt 62808;62320

Species reactivity Human, Mouse, Rat, Monkey, Pig

Clonality Polyclonal

Recommended application IF, ICC, WB, IHC-p, ELISA

Concentration 1 mg/ml

Full name PRKAA1

Synonyms PRKAA1; PRKAA1; AMPK1; 5'-AMP-activated protein kinase catalytic subunit alpha-1; AMPK subunit

alpha-1; Acetyl-CoA carboxylase kinase; ACACA kinase; Hydroxymethylglutaryl-CoA reductase kinase;

 $HMGCR\ kinase;\ Tau-protein\ kinase\ PRKAA1;\ PRKAA2;\ AMPK;$

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

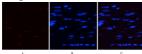
The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the 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.

Recommended Dilution

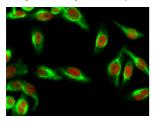
WB: 1: 500 - 1: 2000 IHC-p: 1: 100 - 1: 300 IF: 1: 50 - 1: 200 ELISA: 1: 40000

Not yet tested in other applications.

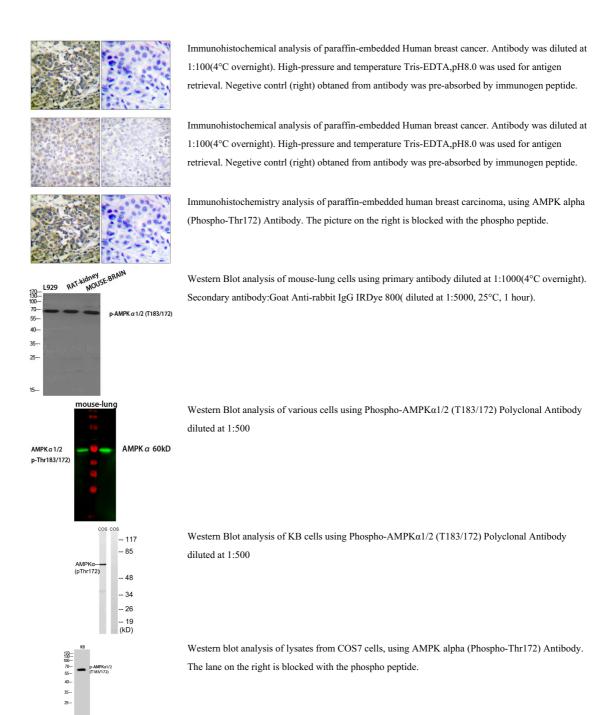
Images



Immunofluorescence analysis of Hela cell. AMPK α 1/2 (phospho Thr183/172) Polyclonal Antibody(Green) was diluted at 1:200(4°C overnight). (Red) was diluted at 1:200(4°C overnight).



Immunofluorescence analysis of rat-heart tissue. 1,AMPK α 1/2 (phospho Thr183/172) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Storage

-20°C for 1 year