BT LAB
Bioassay Technology Laboratory
Optimize Your Research

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

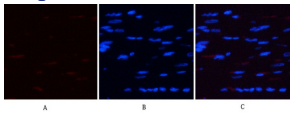
IHC-p: 1: 100 - 1: 300

IF: 1: 50 - 1: 200

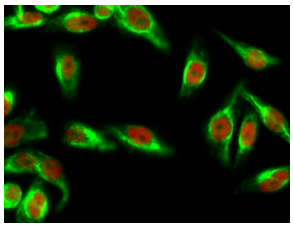
ELISA: 1: 40000

Not yet tested in other applications.

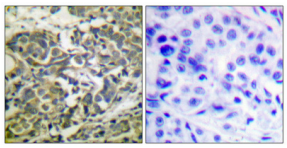
Images



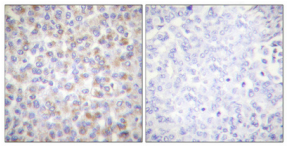
Immunofluorescence analysis of Hela cell. AMPKα1/2 (phospho Thr183/172) Polyclonal Antibody(Green) was diluted at 1:200(4°C overnight). (Red) was diluted at 1:200(4°C overnight).



Immunofluorescence analysis of rat-heart tissue. 1,AMPKα1/2 (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



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4°C overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



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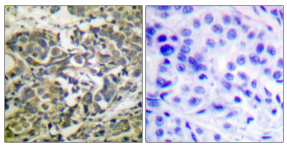
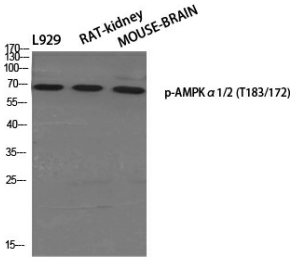
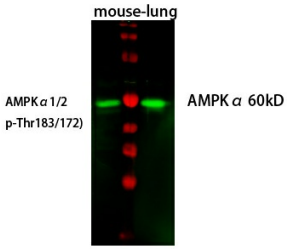


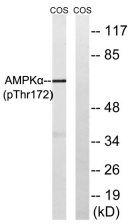
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using AMPK alpha (Phospho-Thr172) Antibody. The picture on the right is blocked with the phospho peptide.



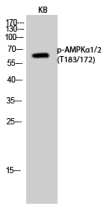
Western Blot analysis of mouse-lung cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour).



Western Blot analysis of various cells using Phospho-AMPKα1/2 (T183/172) Polyclonal Antibody diluted at 1:500



Western Blot analysis of KB cells using Phospho-AMPKα1/2 (T183/172) Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from COS7 cells, using AMPK alpha (Phospho-Thr172) Antibody. The lane on the right is blocked with the phospho peptide.

Storage

-20°C for 1 year

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China
Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com