

AMPK Alpha1 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0156
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human AMPK α 1 expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human,Mouse,Rat,Monkey
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC, FCM, ELISA
Concentration	1 mg/ml
Full name	5'-AMP-activated protein kinase catalytic subunit alpha-1
Synonyms	PRKAA1; AMPK1; 5'-AMP-activated protein kinase catalytic subunit alpha-1; AMPK subunit alpha-1; Acetyl-CoA carboxylase kinase; ACACA kinase

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

FC: 1:200 - 1:400

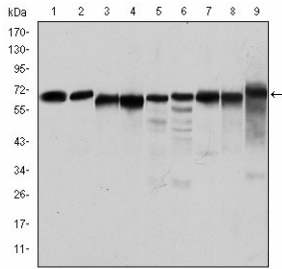
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

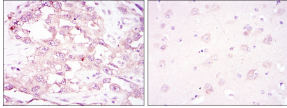
WB: 1:500 - 1:2000

Not yet tested in other applications.

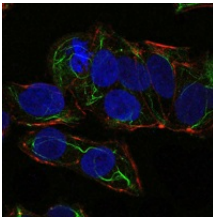
Images



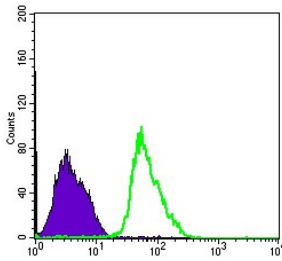
Western Blot analysis using AMPK α 1 Monoclonal antibody against Jurkat (1) HeLa (2) HepG2 (3) MCF-7 (4) Cos7 (5) NIH/3T3 (6) K562 (7) HEK293 (8) and PC-12 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded ovarian cancer (left) and brain tissues (right) with DAB staining using AMPK α 1 Monoclonal antibody.



Immunofluorescence analysis of NTERA-2 cells using AMPK α 1 Monoclonal antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of PC-2 cells using AMPK α 1 Monoclonal antibody (green) and negative control (purple).

Storage

-20°C for one year

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