

AMPK Alpha1 mouse Monoclonal Antibody(9G3)

Description

Product type	Primary Antibody
Code	BT-MCA0158
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Recombinant Protein of AMPK α 1 of PRKAA1
Mol wt	N/A
Species reactivity	Human,Rat,Mouse
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF
Concentration	1 mg/ml
Full name	PRKAA1
Synonyms	PRKAA1

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.

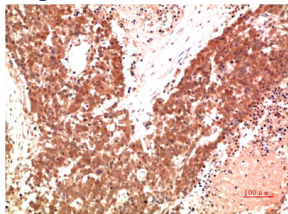
Recommended Dilution

IHC: 1:100-200

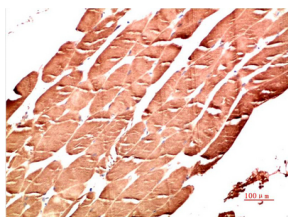
WB: 1:1000-2000

Not yet tested in other applications.

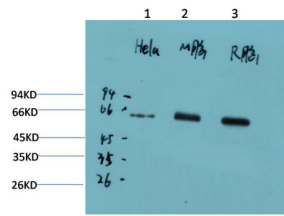
Images



Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using AMPK α 1 Mouse Monoclonal antibody diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Skeletal Muscle Tissue using AMPK α 1 Mouse Monoclonal antibody diluted at 1:200.



Western blot analysis of 1) Hela Cell Lysate, 2) Mouse Brain Tissue Lysate, 3) Rat Brain Tissue Lysate using AMPK a1 Mouse Monoclonal antibody diluted at 1:2000.

Storage

-20°C for one year

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