

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.

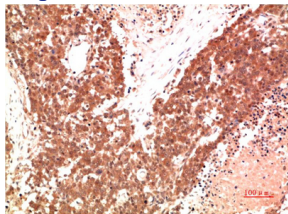
Recommended Dilution

IHC: 1:100-200

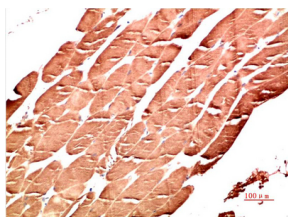
WB: 1:1000-2000

Not yet tested in other applications.

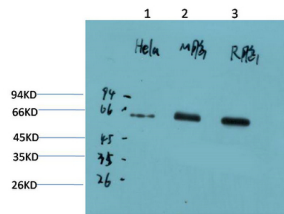
Images



Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using AMPK a1 Mouse Monoclonal antibody diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Skeletal Muscle Tissue using AMPK a1 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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