

AMPK Alpha1 Monoclonal Antibody(5G11)

Description

Product type	Primary Antibody
Code	BT-MCA0155
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of AMPK α 1
Mol wt	N/A
Species reactivity	Human,Rat,Mouse
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF
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; Hydroxymethylglutaryl-CoA reductase kinase; HMGCR kinase; Tau-protein kinase 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.

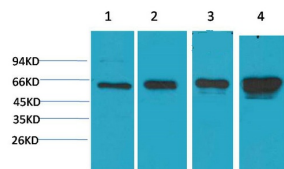
Recommended Dilution

IHC: 1:50-100

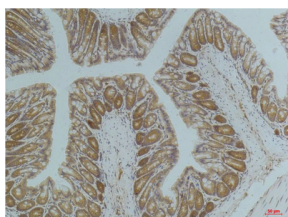
WB: 1:1000-2000

Not yet tested in other applications.

Images



Western blot analysis of 1)Hela, 2) 293T, 3)3T3. 4) PC12 with AMPK α 1 Mouse Monoclonal antibody diluted at 1:2,000.



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

Storage

-20°C for one year

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