Customer service: service@abbkine.com
Technical support: support@abbkine.com
Website: https://www.abbkine.com

AMPK α1 Monoclonal Antibody

Cat #: ABM40228 Size: 30μl /100μl /200μl

Product Information

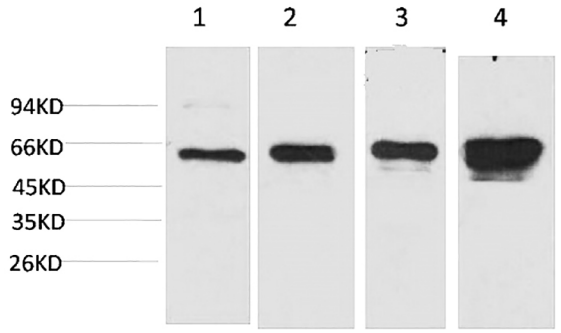
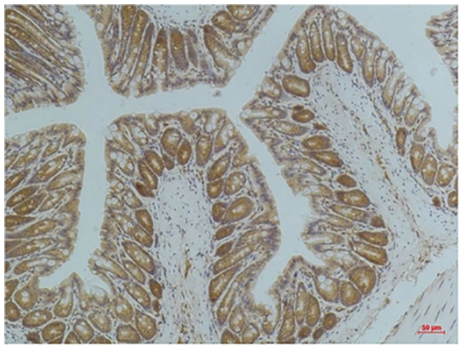
	Product Name: AMPK α1 Monoclonal Antibody		
	Applications: WB, IHC-P		**Isotype:** Mouse IgG1
	Reactivity: Human, Mouse, Rat		
REF	**Catalog Number:** ABM40228	LOT	**Lot Number:** Refer to product label
	Formulation: Liquid		**Concentration:** 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		**Note:** Contain sodium azide.

Background: The protein encoded by PRKAA1 (protein kinase AMP-activated catalytic subunit alpha 1) 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.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:1000-1:2000), IHC-P (1:50-1:100).

Storage Buffer: PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

Storage Instructions: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

	Fig.1. Western blot analysis of 1) Hela, 2) 293T, 3) 3T3, 4) PC12 with AMPK a1 Mouse mAb diluted at 1:2000.
	Fig.2. Immunohistochemical analysis of paraffin-embedded Mouse ColonTissue using AMPK a1 Mouse mAb diluted at 1:200.

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