

# AMPK $\alpha$ 1 Mouse Monoclonal Antibody(9G3)

## Catalog No: RA10164

### Basic Information

Host species	Mouse
Applications	WB,IHC
Species Cross-Reactivity	H,R,M
Specificity	Antibody can detects endogenous AMPK $\alpha$ 1 protein.
Recommended dilutions	WB: 1:1,000-2,000    IHC: 1:100-200 Optimal dilutions should be determined by the end user.

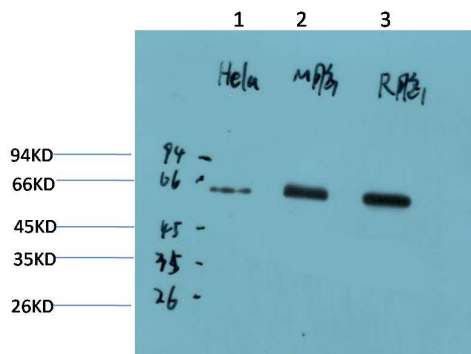
### Applications

Formulation	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/ml
Clonality	Monoclonal

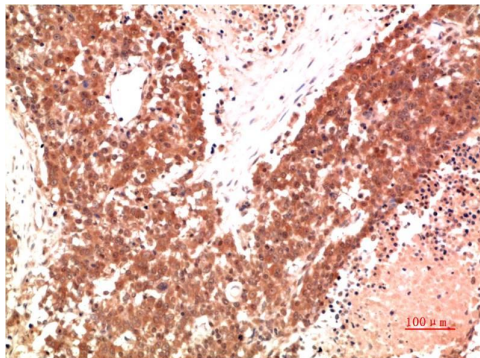
### Background

Alternative Names	AAPK1, 5 AMP activated protein kinase alpha 1 catalytic subunit, PRKAA1, SNF1A, MGC33776
Observed band	62
Human Gene ID	5562
Human Swiss-Prot Number	Q13131
Background	AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic $\alpha$ subunit and regulatory $\beta$ and $\gamma$ subunits, each of which is encoded by two or three distinct genes ( $\alpha$ 1, 2; $\beta$ 1, 2; $\gamma$ 1, 2, 3).

## Selected Validation Data



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



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