

Anti-Phospho-AMPK alpha 1/2 (Thr183, 172) Polyclonal Antibody

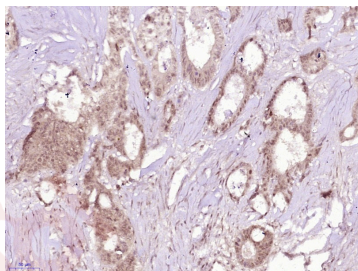
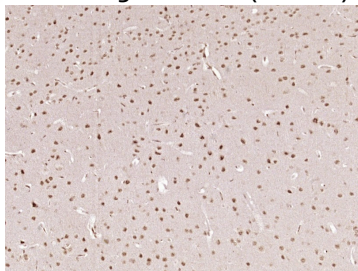
Product Details

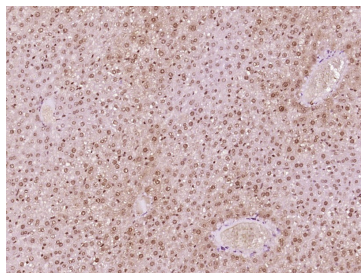
Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Molecular Weight:	Theoretical: 63 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (AMPK alpha 1 (phospho T183) + AMPK alpha 2 (phospho T172)) Polyclonal Antibody, Unconjugated (TMAB-01388) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (Human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (AMPK alpha 1 (phospho T183) + AMPK alpha 2 (phospho T172)) Polyclonal Antibody, Unconjugated (TMAB-01388) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (AMPK alpha 1 (phospho T183) + AMPK alpha 2 (phospho T172)) Polyclonal Antibody, Unconjugated (TMAB-01388) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: IF,IHC-Fr,IHC-P

Recommended IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated Synthesised phosphopeptide: human AMPK alpha 1 around the phosphorylation site of Thr183

Antigen Species: Human

Gene ID: 5562

Synonyms: PRKAA;AMPK α 1;AMPK;PRKAA1;ACACA kinase;Tau-protein kinase PRKAA1;AMPK α 1; α -1;AMPK subunit alpha-1;p-AMPK alpha 1/2 (Thr183, 172);AMPK α 1;5'-AMP-activated protein kinase catalytic subunit alpha-1;AMPK alpha 2 chain;AMPK alpha 1 chain;PRKAA2;AMPK2;AAPK2;AMPK- α -1;Protein kinase AMP activated alpha 1 catalytic subunit;HMGCR kinase;AMPK α 1;AAPK1;AMPK AMPK- α 1;AMPK alpha 1/2 (p-Thr183, 172);AMPK alpha 1/2 (p-T183, 172);Protein kinase AMP activated alpha 2 catalytic subunit;Hydroxymethylglutaryl-CoA reductase kinase;p-AMPK alpha 1/2 (T183, 172);Acetyl-CoA carboxylase kinase;AMPK1

Biology Area: Integration of energy metabolism,Response to hypoxia,Metabolism,Integration of energy,Fatty acids,Hypoxia,Fatty acid oxidation,Cancer,Neurodegenerative disease,Amyloid,Other Kinases

Research 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. [provided by RefSeq, Jul 2008]

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