Phospho-AMPK alpha1/2 (Thr183/172) Polyclonal Antibody

Catalog No. E-AB-21121

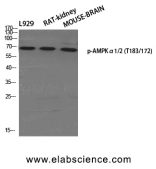
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

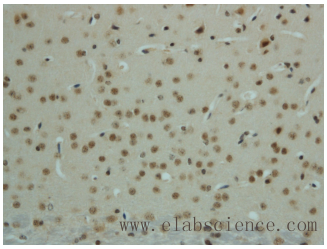
Reactivity	Human,Mouse,Rat,Monkey
Immunogen	Synthesized peptide derived from human AMPKα1/2 around the phosphorylation site of Thr183/172
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Buffer	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:100-1:300
IF	1:50-1:200

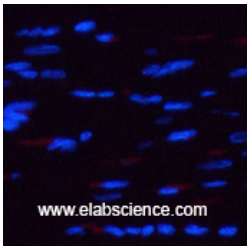
Data



Western Blot analysis of various cells using Phospho-AMPK alpha1/2 (Thr183/172) Polyclonal Antibody at dilution of 1:500
Observed Mw:63kDa
Calculated Mw:62kDa



Immunohistochemistry of paraffin-embedded mouse brain using Phospho-AMPK alpha1/2 (Thr183/172) Polyclonal Antibody at dilution of 1:50



Immunofluorescence analysis of Rat heart tissue using Phospho-AMPK alpha1/2 (Thr183/172) Polyclonal Antibody at dilution of 1:200

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
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Preparation & Storage

Storage Store at -20℃. Avoid freeze / thaw cycles.

Background

AMPK (for 5'-AMP-activated protein kinase) is a heterotrimeric complex comprising a catalytic α subunit and regulatory β and γ subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase, and inhibition of dephosphorylation.Activated AMPK can phosphorylate and regulate in vivo hydroxymethylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively.

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