

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

Catalog No.	B-IO-10088	Reactivity	H,M,R,Mk
Storage	Store at -20°C. Avoid freeze / thaw cycles.	Host	Rabbit
Applications	WB,IHC-p,IF,ELISA	Isotype	IgG

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

Immunogen Information

Immunogen Synthesized peptide derived from human AMPK α 1/2 around the phosphorylation site of Thr183/172

Swissprot Q13131,P54646

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,PRKAA2,AMPK,

Product Information

Calculated MW 62kDa

Observed MW 63kDa

Buffer PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol, pH7.4

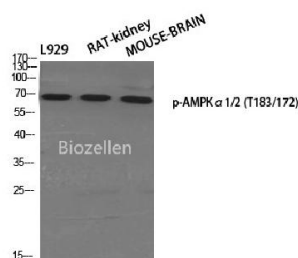
Purify Affinity purification

Dilution WB 1:500-1:2000, IHC 1:100-1:300, IF 1:50-1:200, ELISA 1:40000

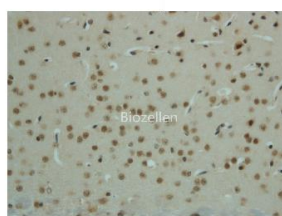
Background

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.

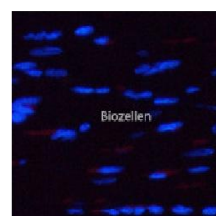
Images



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



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