

Datasheet for ABIN7250794

anti-PRKAA1/PRKAA2 antibody (pThr172, pThr183)[Go to Product page](#)**3** Images

Overview

Quantity:	200 µL
Target:	PRKAA1/PRKAA2
Binding Specificity:	pThr172, pThr183
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1/PRKAA2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Synthesized peptide derived from human AMPKalpha1/2 around the phosphorylation site of Thr183/172
Isotype:	IgG
Characteristics:	Phosphorylated antibody
Purification:	Affinity purification

Target Details

Target:	PRKAA1/PRKAA2
Alternative Name:	AMPK alpha1/2

Target Details

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.

Molecular Weight: Observed_MW: 63 kDa
Calculated_MW: 62 kDa

UniProt: [Q13131](#), [P54646](#)

Application Details

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

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

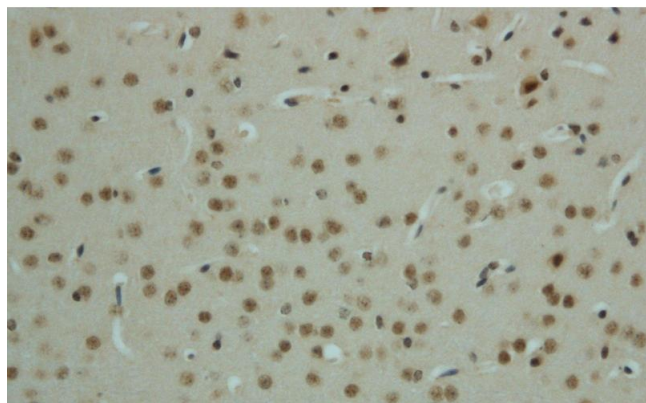
Buffer: PBS with 0.02 % sodium azide, 0.5 % BSA and 50 % glycerol, pH 7.4

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

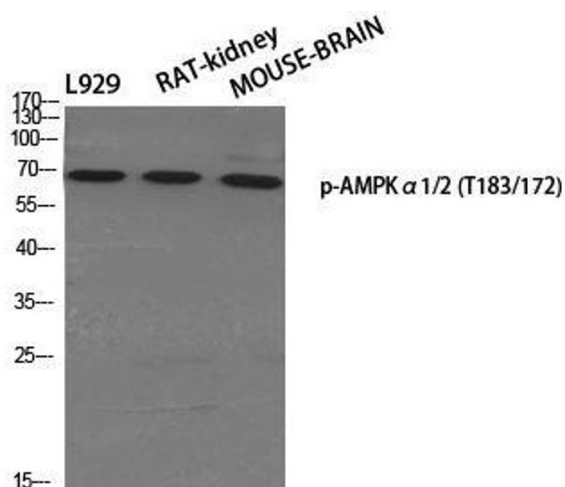
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



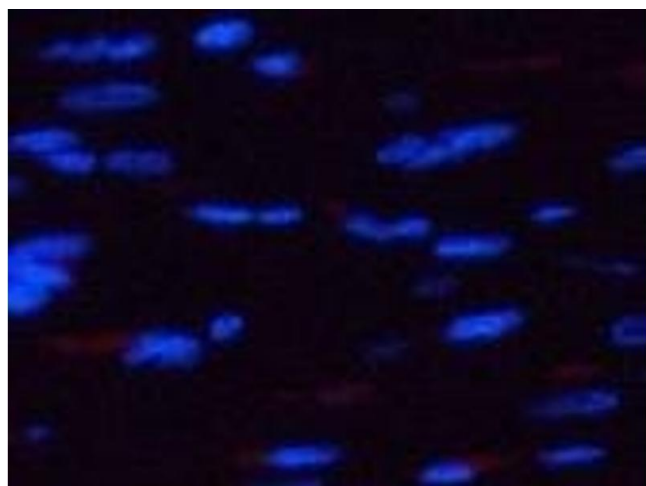
Immunohistochemistry (Paraffin-embedded Sections)

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



Western Blotting

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



Immunofluorescence

Image 3. Immunofluorescence analysis of Rat heart tissue using Phospho-AMPK alpha1/2 (Thr183/172) Polyclonal Antibody at dilution of 1:200