

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

CATALOG NO.: **A2348-50 (50 µl)**
A2348-100 (100 µl)

BACKGROUND DESCRIPTION: The 5'-AMP-activated protein kinase (AMPK) is a heterotrimer composed of an alpha catalytic subunit (alpha 1 or alpha 2) and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. AMPK is activated in response to cellular metabolic stresses, regulating various key metabolic enzymes through phosphorylation to protect the cell from ATP depletion by switching off energy-dependent biosynthetic pathways.

ALTERNATE NAMES: PRKAA1; AMPK1; PRKAA2; AMPK

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

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

PURIFICATION: Affinity purification

MOLECULAR WEIGHT: 63 kDa

FORM: Liquid

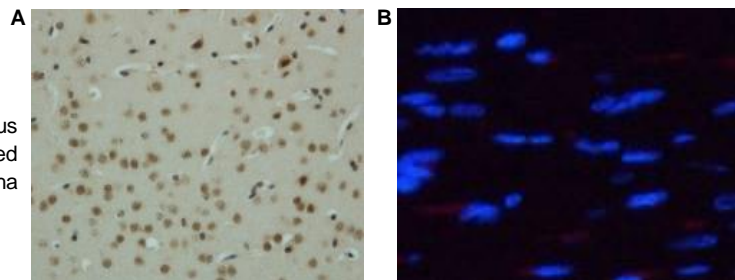
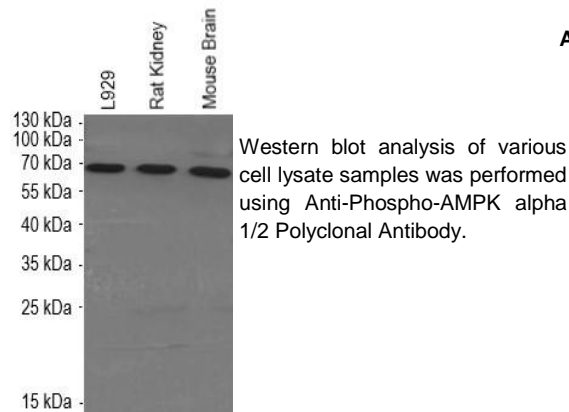
FORMULATION: In PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol, pH 7.4

SPECIES REACTIVITY: Mouse, Rat (tested); Human (predicted)

STORAGE CONDITIONS: Aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles

APPLICATIONS: Western Blotting: 1:500 to 1:2000 dilution; IHC: 1:100 to 1:300 dilution; IF: 1:50 to 1:200 dilution

This information is only intended as a guide. The optimal dilutions must be determined by the user



Anti-Phospho-AMPK alpha 1/2 Polyclonal Antibody was used to perform **A)** immunohistochemistry of paraffin-embedded mouse brain tissue sample and **B)** immunofluorescence of rat heart tissue.

RELATED PRODUCTS:

AMPK γ Antibody (Cat. No. 3109)
 Phospho-AMPK α 1 (Ser496) Antibody (Cat. No. A1247)
 AMPK α 1 Antibody (Cat. No. 3951)
 Phospho-AMPK β 1 (Ser182) Antibody (Cat. No. A1248)
 AMPK β Antibody (Cat. No. 3108)