

PRKAA1 (Ab-174/172) Antibody



PACO23565

Product Information

Size:

100ul

Reactivity:

Human, Mouse, Rat

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC, IF

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:1000,
IHC:1:50-1:200, IF:1:100-1:200

Protein Background:

Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit.

Gene ID:

PRKAA1

Uniprot

Q13131

Synonyms:

AMPK, AMPKa1

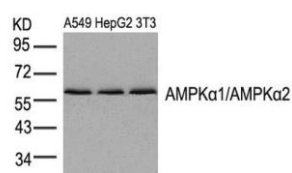
Immunogen:

Peptide sequence around aa. 172~176/170~174 (L-R-T-S-C) derived from Human AMPKa1/AMPKa2.

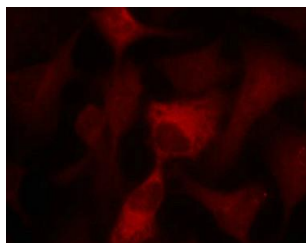
Storage:

Supplied at 1.0mg/mL in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

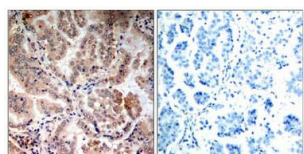
Product Images



Western blot analysis of extracts from A549, HepG2 and 3T3 cells using AMPKα1/AMPKα2(Ab-174/172) Antibody.



Immunofluorescence staining of methanol-fixed HeLa cells using AMPKα1/AMPKα2(Ab-174/172) Antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKα1/AMPKα2(Ab-174/172) Antibody(left) or the same antibody preincubated with blocking peptide(right).