

DATASHEET

Version: 2016-08-17

AMPK α 1/AMPK α 2 Antibody (Ab-174/172), pAb, Rabbit

Cat. No.: A00664-100

Size: 100 μ g

Synonyms: AMPK α 1/AMPK α 2 Antibody (Ab-174/172), pAb, Rabbit;

Description:

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 5AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit.

Immunogen: Synthesized non-phosphopeptide derived from human AMPK α 1/AMPK α 2 around the phosphorylation site of threonine 174/172 (L-R-T^P-S-C).

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Predicated Band Size:

63 kD

Observed Band Size:

63 kD

Formulation:

1 mg/ml in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.02% sodium azide, and 50% glycerol

Ig Subclass: Rabbit IgG

Specificity: GenScript AMPK α 1/AMPK α 2 Antibody (Ab-174/172) detects endogenous levels of total AMPK α 1/AMPK α 2 protein.

Purification: GenScript Rabbit Anti-AMPK α 1/AMPK α 2 Antibody (Ab-174/172) Polyclonal Antibody was purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Applications:

IHC: 1:50-1:100

WB: 1:500-1:1,000

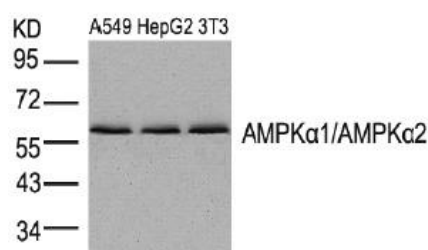
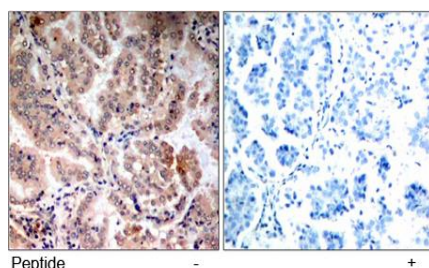
IF: 1:100-1:200

Species Reactivity: Human, Mouse, Rat

Storage:

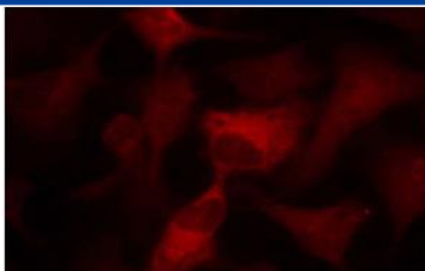
Store at -20°C/1 year.

Example



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPK α 1/AMPK α 2 (Ab-174/172) Antibody, pAb, Rabbit (GenScript, A00664) (left) or the same antibody pre-incubated with blocking peptide (right)

Western blot analysis of extract from A549, HepG2 and 3T3 cells using AMPK α 1/AMPK α 2 (Ab-174/172) Antibody, pAb, Rabbit (GenScript, A00664)



Immunofluorescence staining of methanol-fixed HeLa cells using **AMPK α 1/AMPK α 2 (Ab-174/172) Antibody, pAb, Rabbit** (GenScript, A00664)