

DATASHEET

Version: 2016-08-17

AMPK α 1 Antibody (Phospho-Ser⁴⁸⁷), pAb, Rabbit

Cat. No.: A00345-100

Size: 100 μ g

Synonyms: AMPK α 1 Antibody (Phospho-Ser⁴⁸⁷), 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 phosphopeptide derived from human AMPK α 1 around the phosphorylation site of Serine 487 (S-G-S^P-V-S)

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 Rabbit Anti-AMPK α 1 (Phospho-Ser⁴⁸⁷) Polyclonal Antibody detects endogenous levels of AMPK α 1 only when phosphorylated at serine 487.

Purification: GenScript Rabbit Anti-AMPK α 1 (Phospho-Ser⁴⁸⁷) Polyclonal Antibody is affinity-purified from rabbit antiserum by affinity chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide is removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Applications:

Western blot: 1:500-1:1,000

IHC: 1:50-1:100

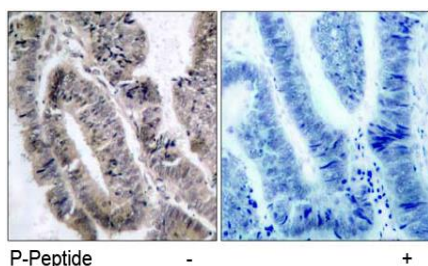
IF: 1:100-1:200

Species Reactivity: Human, Mouse, Rat

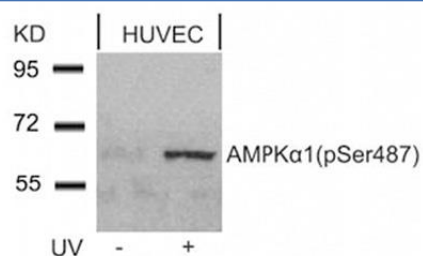
Storage:

Store at -20°C/1 year.

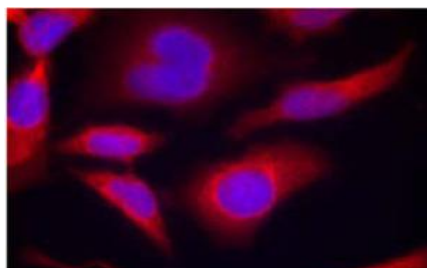
Example



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AMPK α 1 (Phospho-Ser⁴⁸⁷) Antibody, pAb, Rabbit (GenScript, A00345)(left) or the same antibody pre-incubated with blocking peptide (right)



Western blot analysis of extract from HUVEC cells untreated or treated with UV using AMPK α 1 (Phospho-Ser⁴⁸⁷) Antibody, pAb, Rabbit (GenScript, A00345)



Immunofluorescence staining of methanol-fixed HeLa cells using **AMPK α 1 Antibody (Phospho-Ser⁴⁸⁷)**, pAb, Rabbit (GenScript, A00345)