

DATASHEET

Version: 2016-08-17

AMPK α 1 Antibody, pAb, Rabbit

Cat. No.: A01623-40

Size: 40 μ g

Synonyms: AMPK1 antibody, pAb, Rabbit ;

Description:

AMP-activated protein kinase (AMPK) plays an important role in the regulation of energy homeostasis. It is activated by an elevated AMP/ATP ratio caused by cellular and environmental stress, such as heat shock, hypoxia, and ischemia. AMPK is a heterotrimeric complex composed of a catalytic α subunit and regulatory β and γ subunits, each of which is encoded by two or three distinct genes (α 1, α 2; β 1, β 2; γ 1, γ 2, γ 3).

Phosphorylation of AMPK α at Thr172 is the major regulatory site which is required for AMPK activation.

GenScript **AMPK α 1 Antibody, pAb, Rabbit** is developed in rabbit using a KLH-coupled synthetic peptide within residues 500–550 of human AMPK α 1 (Swiss Prot: Q13131).

Immunogen: KLH-coupled synthetic peptide within residues 500–550 of human AMPK α 1 (Swiss Prot: Q13131)

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Predicated Band Size:

64 KD

Observed Band Size:

64 KD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript AMPK α 1 Antibody, pAb, Rabbit detects endogenous levels of human AMPK α 1 and does not cross-react with AMPK α 2. It is predicted to react with mouse AMPK α 1 according to sequence homology.

Positive Control: HEK293 and MCF-7

Purification: Immunoaffinity chromatography

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western blot: 0.5-1 μ g/ml

Other Applications: User optimized

Species Reactivity: Human

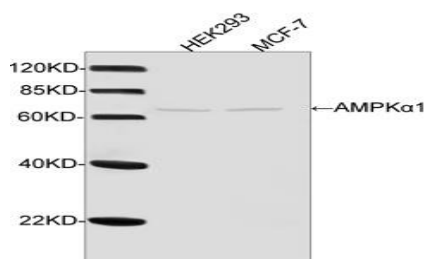
Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at $2-8^{\circ}\text{C}$. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example



Western blot analysis of cell lysates using AMPK α 1 Antibody, pAb, Rabbit (GenScript, A01623, 1 μ g/ml)

Predicted Size: 64 KD

Observed Size: 64 KD

