

Rabbit AMPK-alpha (pT172) Antibody | anti-AMPK-alpha (pT172) antibody

Rabbit anti Phospho- AMPK alpha 1 (pThr 172)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71372	Rabbit	Human, Rat, Mouse, Bovine, Dog, Chicken, Dog, Insect	ELISA

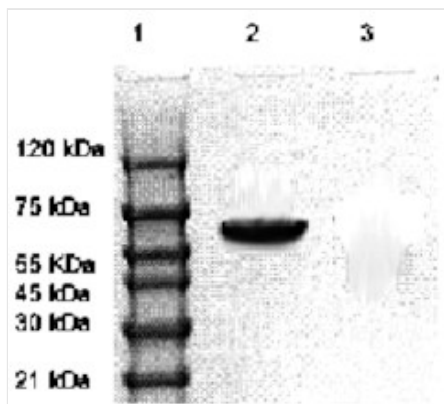
PRODUCT SYNONYMS

AMPK-alpha (pT172); Rabbit anti Phospho- AMPK alpha 1 (pThr 172); Rabbit anti--AMPK alpha 1 (pT172) Phosphospecific; AMPKalpha-1; AMP-activated protein kinase alpha 1; PRKAA1; MGC57364; AMPK; anti-AMPK-alpha (pT172) antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse, Bovine, Dog, Chicken, Dog, Insect
Specificity	This antibody recognizes AMPK alpha with a phosphorylated site of Thr 172. It does not cross-react with non-phosphospecific peptide.
Purity/Purification	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Form/Format	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer
Applicable Applications for anti-AMPK-alpha (pT172) antibody	ELISA
Antigen Preparation	A synthetic peptide surrounding to the epitope -LRTSC- with a phosphorylation site at Thr 172 of AMPK alpha 1 protein from human origin. It is identical among human, mouse, rat, chicken, bovine, dog, and insect species.
Positive Control	Kidney Tissue
Cellular Location	Cell membrane
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three months without detectable loss of activity. Avoid repeated freezing-thawing cycles.

IMAGES



Application Data

Western Blot: The whole cell lysate derived from EGF stimulated A431 immunoblotted by Rabbit anti AMPK alpha 1 (pT172) antibody (Cat#AAA71372) at 1:500 (lane 2). BSA was loaded as a negative control (Lane 3). Observed a major immunoreactive band at molecular weight ~63kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AMPK-alpha (pT172) antibody	AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy balance at both the cellular and the whole body levels. Once activated, it affects a metabolic switch from an anabolic to a catabolic state, both by acutely phosphorylating metabolic enzymes and, in the longer term, by regulating gene expression. AMPK is a heterotrimeric complex composed of a catalytic alpha subunit and regulatory beta and gamma subunits. Binding APM to the beta domains triggers increased phosphorylation at Thr172 on the activation loop of the alpha subunit. AMP Phosphorylation at Thr172 is catalyzed by the tumor suppressor kinase LKB1 or CaMKK-beta, TGF-beta activated kinase-1 (TAK1). AMPKalpha is also phosphorylated at Thr258 and Ser485 (for alpha1; Ser491 for alpha2).
References	Jing Chen et al. AMPK regulation of mouse oocyte meiotic resumption in vitro. Developmental Biology, 291 (2), 227-238 (2006).

NCBI AND UNIPROT INFORMATION

NCBI GI #	60459958
Molecular Weight	63.0
NCBI Official Full Name	AMPK-alpha subunit

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-bovine-chicken-dog-human-insect-mouse-ovine-rat-antibody/ampk-alpha-pt172/71372>