

AMPKalpha Antibody | anti-AMPKalpha antibody

AMPKalpha (Phospho-Thr172) Antibody

CATALOG # AAA110307	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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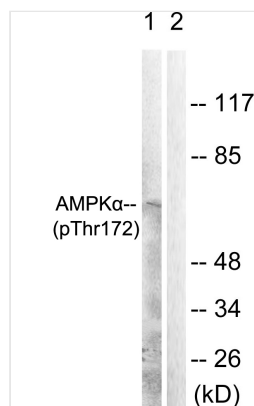
PRODUCT SYNONYMS

AMPKalpha; AMPKalpha (Phospho-Thr172) Antibody; 5'-AMP-activated protein kinase; catalytic alpha-1 chain; AAPK1; AMPK alpha-1 chain; AMPK-alpha1; EC 2.7.11.1; HMG-CoA reductase kinase; PRKAA1; acetyl-CoA carboxylase kinase; hormone-sensitive lipase kinase; kinase AMPK-alpha1; anti-AMPKalpha antibody

PRODUCT SPECIFICATIONS

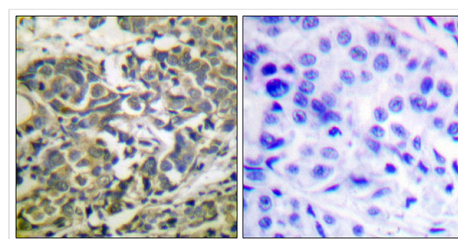
Reactivity	Human, Mouse, Rat
Specificity	AMPKalpha (Phospho-Thr172) antibody detects endogenous levels of AMPKalpha only when phosphorylated at threonine172 in both chain 1 and 2.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Form/Format	In phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	559
Applicable Applications for anti-AMPKalpha antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human AMPKalpha around the phosphorylation site of threonine172 (L-R-TP-S-C).
All Sites	Human: Thr172 Mouse: Thr172 Rat: Thr172
Preparation and Storage	Store at -20 degree C for 1 year

IMAGES



Application Data

Western blot analysis of extracts from 293 cells treated with heat shock, using AMPKalpha (Phospho-Thr172) antibody.



Application Data

P-peptide - +Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKalpha (Phospho-Thr172) antibody.

ADDITIONAL INFORMATION

Product Categories/Family for anti-AMPKalpha antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
References	Siwang Yu AACR, Meeting Abstracts, Apr 2006; 2006: 538. Laura BarréAm, J Physiol Endocrinol Metab, Mar 2007; 292: E802-E811. Hideyuki Sakoda, Am J Physiol Endocrinol Metab, Sep 2005; 289: E474-E481. Lucie Tosca Endocrinology, Oct 2005; 146: 4500-4513.

NCBI AND UNIPROT INFORMATION

NCBI GI #	94557301
NCBI GeneID	5562
NCBI Accession #	NP_006242.5
NCBI GenBank Nucleotide #	NM_006251.5
UniProt Accession #	Q13131; O00286; Q5D0E1; Q86VS1; Q9UNQ4; A8MTQ6; B2R7E1
Molecular Weight	65,523 Da
NCBI Official Full Name	5'-AMP-activated protein kinase catalytic subunit alpha-1 isoform 1
NCBI Official Synonym Full Names	protein kinase AMP-activated catalytic subunit alpha 1
NCBI Official Symbol	PRKAA1
NCBI Official Synonym Symbols	AMPK; AMPKa1
NCBI Protein Information	5'-AMP-activated protein kinase catalytic subunit alpha-1
UniProt Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-1
UniProt Gene Name	PRKAA1
UniProt Synonym Gene Names	AMPK1; HMGCR kinase

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.