AMPKα (Phospho-Thr172) Antibody

Catalog Number: E11-0003A

Amount: 100μg/100μl

Swiss-Prot No. : Q13131

All Names: 5'-AMP-activated protein kinase, catalytic alpha-1 chain, AAPK1, AMPK alpha-1 chain, AMPK-alpha1, EC 2.7.11.1, HMG-CoA redustase kinase, PRKAA1, acetyl-CoA carboxylase kinase, hormone-sensitive lipase kinase, kinase AMPK-alpha1

All Sites: Human: Thr172; Mouse: Thr172; Rat: Thr172

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human AMPKα around the phosphorylation site of threonine172 (L-R-T^{P}-S-C).

Purification: The antibody was 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.

Specificity/Sensitivity: AMPKα (Phospho-Thr172) antibody detects endogenous levels of AMPKα only when phosphorylated at threonine172 in both chain 1 and 2.

Reactivity: Human, Mouse, Rat

Applications: WB: 1:500~1:1000 IHC: 1:50~1:100
ELISA: 1:40000

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.

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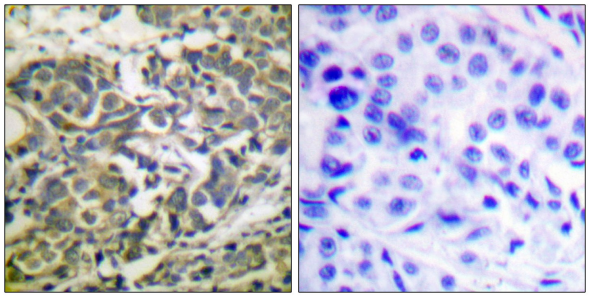
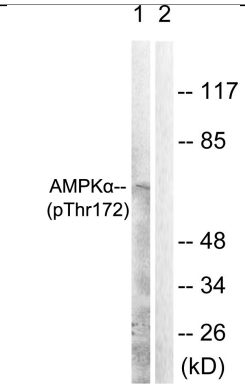


P-peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKα (Phospho-Thr172) antibody.



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