

# Anti- AMPK $\alpha$ (Phospho-Thr172) Polyclonal Antibody



<u>Catalog No.</u>	<u>Size</u>
A100003-01	50 $\mu$ l
A100003-02	100 $\mu$ l

<b>Specificity</b>	Anti- AMPK $\alpha$ (Phospho-Thr172) (human Mouse Rat)
<b>Source</b>	Rabbit Polyclonal
<b>Application</b>	WB ELISA IHC
<b>Form</b>	Liquid, 1 mg/ml

## Specificity and Sensitivity

**Swiss-Prot No.:** Q13131

**Other Names:** 5'-AMP-activated protein kinase, catalytic alpha-1 chain, AAMPK1, 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

## Specificity and Sensitivity

AMPK $\alpha$  (Phospho-Thr172) antibody detects endogenous levels of AMPK $\alpha$  only when phosphorylated at threonine172 in both chain 1 and 2.

## Source and Purification

The antiserum was produced against synthesized phosphopeptide derived from human AMPK $\alpha$  around the phosphorylation site of threonine172 (L-R-T<sup>P</sup>-S-C). The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## Application Notes

Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows:

WB: 1:1000~ 1:3000      ELISA: 1:20000

IHC: 1:50~1:100

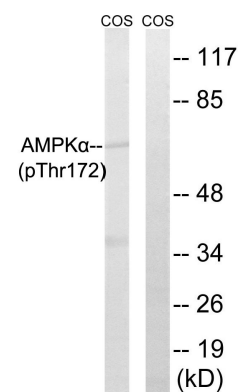
## Storage Buffer

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

## Storage Instructions

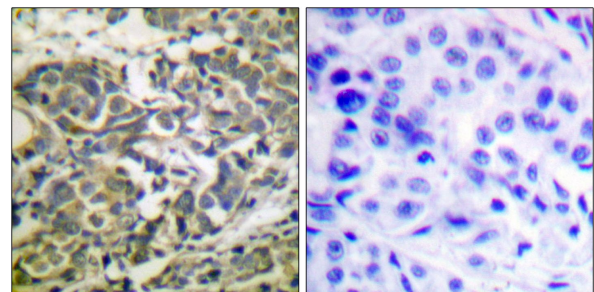
Stable for 1 year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. Aliquot will be stable at 4°C for 3 months.

## Images



Peptide - +

Western blot analysis of extracts from COS7 cells treated with heat shock, using AMPK $\alpha$  (Phospho-Thr172) antibody.



P-peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using AMPK $\alpha$  (Phospho-Thr172) antibody.