

## AMPK alpha 1/2 (Phospho-T183/172) polyclonal antibody

Catalog: BS66250

Host: Rabbit

Reactivity: Human, Mouse, Rat, Chicken, Pig

### Background:

The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 63 kDa

### Swiss-Prot:

Q13131/P54646

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB, 1:500 - 1:1000 | IHC, 1:50 - 1:100 | IF/ICC, 1:50 - 1:200

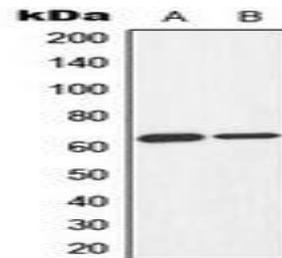
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

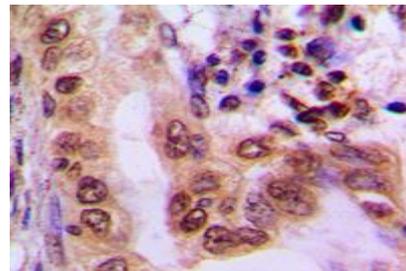
### Specificity:

AMPK alpha 1/2 (Phospho-T183/172) Antibody detects endogenous levels of AMPK alpha 1/2 only when phosphorylated at Thr183/172.

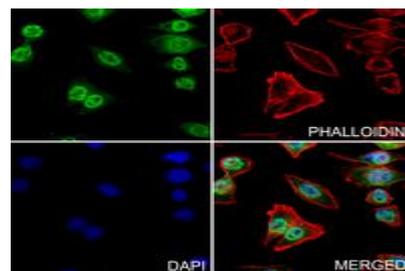
### DATA:



Western blot analysis of AMPK alpha 1/2 (Phospho-T183/172) expression in Jurkat Adriamycin-treated (A), K562 Adriamycin-treated (B) whole cell lysates.



Immunohistochemical analysis of AMPK alpha 1/2 (Phospho-T183/172) staining in human lung cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of AMPK alpha 1/2 (Phospho-T183/172) staining in MCF7 cells.

### Note:

For research use only, not for use in diagnostic procedure.

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