

Recombinant Phospho-AMPK α (Thr172) Monoclonal Antibody

catalog number: **AN300369L**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

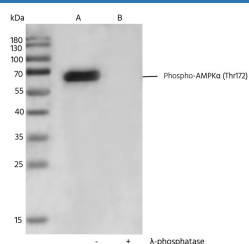
Reactivity	Human
Immunogen	A synthetic peptide corresponding to the residues around
Host	Rabbit
Isotype	IgG
Clone	11A7
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 μ g/mL protein protectant, 50% glycerol, pH 7.5

Applications

Recommended Dilution

WB	1:2000-1:20000
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Data



Western blot analysis of extracts from Rat brain, untreated (line A); treated with λ -phosphatase (line B) using Phospho-AMPK α (Thr172) rabbit monoclonal Antibody at 1:2000 dilution..

Observed-MW:67 kDa

Calculated-MW:62 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

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.

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