

Phospho-AMPK-alpha pThr172 Antibody

Lot Number: RI2266713

Product Data Sheet

| Tested Species Reactivity | Published Species Reactivity |
|---------------------------|------------------------------|
| Bovine (Bv) | Ovine (Ov) |
| Chicken (Ck) | |
| Human (Hu) | |
| Mouse (Ms) | |
| Non-human primate (Nhp) | |
| Porcine (Po) | |
| Rat (Rt) | |

| Tested Applications | Dilution * |
|---------------------|------------|
| Western Blot (WB) | 1:1000 |

| Published Applications | Dilution |
|------------------------|------------------|
| Western Blot (WB) | See publications |

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

| Details | |
|------------------------|---------------------------------------------------------------------------------------|
| Catalog Number: | PA5-17831 |
| Size: | 100 µL |
| Class: | Polyclonal |
| Type: | Antibody |
| Clone: | |
| Host / Isotype: | Rabbit / IgG |
| Immunogen: | Synthetic phosphopeptide corresponding to residues surrounding pThr172 of human AMPKa |

| Form Information | |
|----------------------------|------------------------------------------------------------------|
| Form: | Liquid |
| Purification: | Antigen affinity chromatography |
| Storage Buffer: | 0.01M HEPES, pH 7.5, with 100µg/ml BSA, 50% glycerol, 0.15M NaCl |
| Preservative: | no preservative |
| Storage Conditions: | -20°C |

| Product Specific Information | General Information |
|------------------------------|---------------------|
|------------------------------|---------------------|

It is not recommended to aliquot this antibody.

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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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