**Phospho-AMPK alpha (Thr172) Ab**

<table>
<thead>
<tr>
<th>Cat.#: AF3423</th>
<th>Concentration: 1mg/ml</th>
<th>Mol.Wt.: 62kDa</th>
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<tbody>
<tr>
<td>Size: 100ul,200ul</td>
<td>Source: Rabbit</td>
<td>Clonality: Polyclonal</td>
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**Application:**
- WB 1:500-1:2000, IHC 1:50-1:200, IF 1:100-500

**Reactivity:**
- Human, Mouse, Rat

**Purification:**
The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.

**Specificity:**
Phospho-AMPK alpha (Thr172) Ab detects endogenous levels of AMPK alpha only when phosphorylated at Threonine 172.

**Immunogen:**
A synthesized peptide derived from human AMPK alpha around the phosphorylation site of Thr172.

**Uniprot:**
- Q13131/P54646

**Description:**
AMPKA2 a protein kinase of the CAMKL family. The holoenzyme consists of a catalytic subunit (alpha) and two regulatory subunits (beta, gamma).

**Subcellular Location:**
- Nucleus;

**Similarity:**
The AIS (autoinhibitory sequence) region shows some sequence similarity with the ubiquitin-associated domains and represses kinase activity. Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.

**Storage Condition and Buffer:**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from PANC1, using Phospho-AMPK alpha (Thr172) Ab. The lane on the left was treated with blocking peptide.
Phospho-AMPK alpha (Thr172) Ab for IHC in human colon.

AF3423 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

af3423 staining C2C12 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary Ab was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.