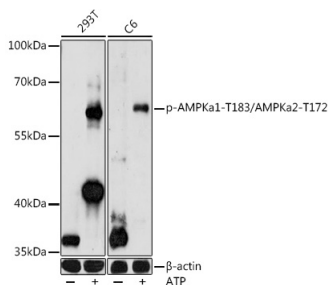


<b>Cat. No:</b>	ABP-0883
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	Poly
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Rb
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	A phospho specific peptide corresponding to residues surrounding T172 of human AMPK $\alpha$
<b>Reactivity:</b>	Hu,Rt
<b>Applications:</b>	WB
<b>Molecular Weight:</b>	64kDa
<b>Purification:</b>	Affinity purification
<b>Synonyms:</b>	AMPK $\alpha$ 1/AMPK $\alpha$ 2

**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.

<b>Form:</b>	liquid
<b>Buffer:</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles



Western blot analysis of extracts of various cell lines, using Phospho-AMPK $\alpha$ 1-T183/AMPK $\alpha$ 2-T172 antibody at 1:1000 dilution. 293T and C6 cells were treated by ATP (5 mM) at 30°C for 1 hour. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus. Exposure time: 90s.

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