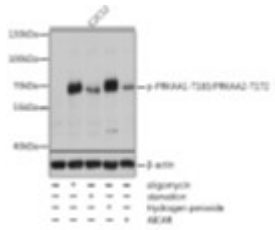
Product Data Sheet: Phospho-AMPKα1/2 (T183/172)

Cat. No:	ABP-0116
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	A phospho specific peptide corresponding to residues surrounding T172 of human AMPKα
Reactivity:	Hu, Ms, Rt, Monkey
Applications:	WB 1:1,000 IP: 1:50 IHC: 1:50
Molecular Weight:	64kDa
Purification:	Affinity purification
Synonyms:	AMPKa1/AMPKa2
Background:	The protein encoded by this gene belongs to the ser/thr protein kinase family. It is thecatalytic subunit of the 5′-prime-AMP-activated protein kinase (AMPK). AMPK is a cellularenergy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activatedby the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of anumber of key metabolic enzymes through phosphorylation. It protects cells fromstresses that cause ATP depletion by switching off ATP-consuming biosyntheticpathways. Alternatively spliced transcript variants encoding distinct isoforms have beenobserved. [provided by RefSeq, Jul 2008]
Form:	liquid
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles



Western blot analysis of extracts of C2C12 cells, using Phospho-AMPKALPHA 1-T183/AMPKALPHA 2-T172 antibody at 1:2000 dilution. C2C12 cells were treated by Oligomycin (0.5uM) for 30 minutes, treated by serum-starvation overnight, treated by Hydrogen Peroxide (2nM) for 15 minutes or treated by AICAR (0.5mM) for 30 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG

(H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% BSA. Detection: ECL
West Pico Immunological Sciences.
Exposure time: 1s.