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Phospho-AMPKβ1 (Ser182) Antibody

Catalog # ABV11979

Product Information

Application	WB, IHC, E
Primary Accession	Q9Y478
Reactivity	Human, Rat
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	30382

Additional Information

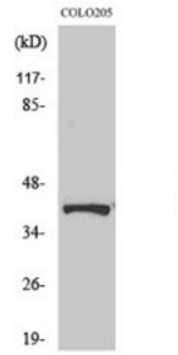
Gene ID	5564
Positive Control	WB: COLO205 cell lysate
Application & Usage	WB 1:500-1:2000; IHC 1:100-1:300; E 1:40000
Other Names	PRKAB1; AMPK; 5'-AMP-activated protein kinase subunit beta-1; AMPK subunit beta-1; AMPKb
Target/Specificity	PRKAB1
Antibody Form	Liquid
Appearance	Colorless liquid
Handling	The antibody solution should be gently mixed before use
Reconstitution & Storage	-20°C
Background Descriptions	
Precautions	Phospho-AMPKβ1 (Ser182) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRKAB1
Synonyms	AMPK
Function	Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription

regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3).

Images



WB analysis of COLO205 cells using PhosphoriPKbeta 1 (Ser182) Polyclonal ltibody