





Phospho-PRKAB1 (Ser181) Antibody

Product Code	CSB-PA165739
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9Y478
Immunogen	Peptide sequence around phosphorylation site of Serine 181(L-S-S(p)-S-P) derived from Human AMPK $\beta1$.
Raised In	Rabbit
Species Reactivity	Human, Mouse, Rat
Specificity	The antibody detects endogenous level of AMPK $\beta 1$ only when phosphorylated at Serine 181.
Tested Applications	ELISA,WB;WB:1:500-1:1000
Relevance	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).
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Clonality	Polyclonal
Alias	AMPK, HAMPKb
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	PRKAB1
Image	

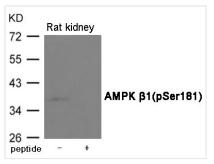


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Western blot analysis of extracts from Rat kindey using AMPK β1(Phospho-Ser181) Antibody.The lane on the right is treated with the antigenspecific peptide.

Product Modify

Phospho-Ser181