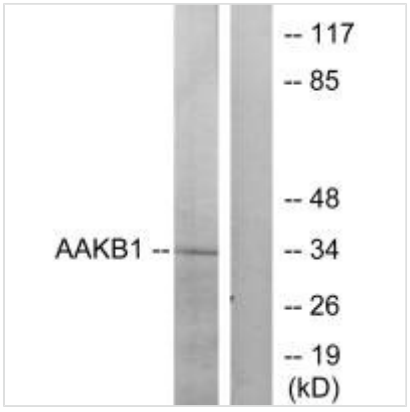
PRKAB1 Antibody

Product Code	CSB-PA695332
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9Y478
Immunogen	Synthesized peptide derived from N-terminal of Human PRKAB1.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous levels of total PRKAB1 protein.
Tested Applications	ELISA,WB;WB:1:500-1:3000
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). Stapleton D., FEBS Lett. 409:452-456(1997). Scherer S.E., Nature 440:346-351(2006). The MGC Project Team, Genome Res. 14:2121-2127(2004).
Form	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	5-AMP-activated protein kinase subunit beta-1; AMPK beta-1 chain; AMPKb; PRKAB1; AMPK
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	PRKAB1
Image	



Western blot analysis of extracts from RAW264.7 cells, treated with TNF (20ng/ml, 5mins), using PRKAB1 antibody.