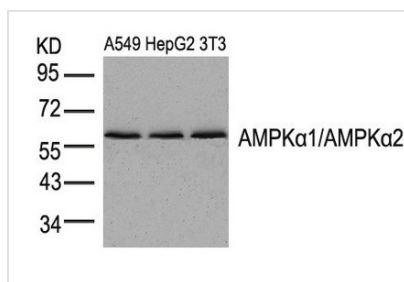


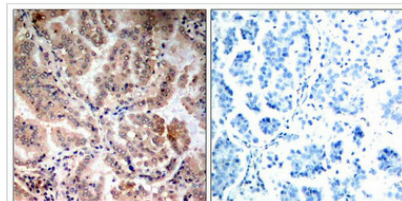


PRKAA1 (Ab-174/172) Antibody

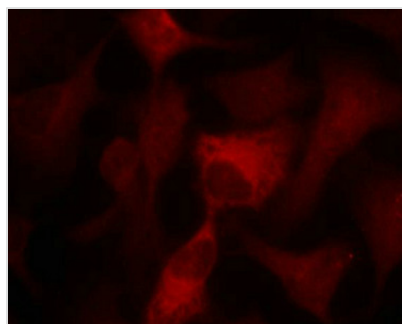
Product Code	CSB-PA913725
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13131
Immunogen	Peptide sequence around aa. 172~176/170~174 (L-R-T-S-C) derived from Human AMPKa1/AMPKa2.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total AMPKa1/AMPKa2 protein.
Tested Applications	ELISA,WB,IHC,IF;WB:1:500-1:1000,IHC:1:50-1:200,IF:1:100-1:200
Relevance	Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit. Hurley RL, et al. (2005) J Biol Chem. Aug 12; 280(32): 29060-29066 Woods A, et al. (2003) Curr Biol. Nov 11; 13(22): 2004-2008 Nielsen JN, et al. (2003) J Appl Physiol. Feb; 94(2): 631-641 Da Silva Xavier G, et al. (2000) Proc Natl Acad Sci U S A. Apr 11; 97(8): 4023-4028.
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Clonality	Polyclonal
Alias	AMPK, AMPKa1
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	PRKAA1
Image	



Western blot analysis of extracts from A549, HepG2 and 3T3 cells using AMPKα1/AMPKα2(Ab-174/172) Antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKα1/AMPKα2(Ab-174/172) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using AMPKα1/AMPKα2(Ab-174/172) Antibody.