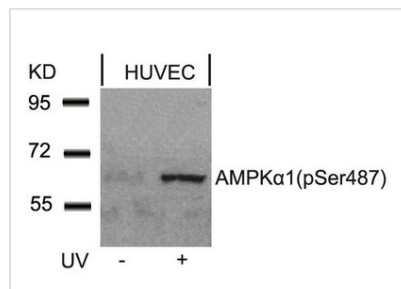


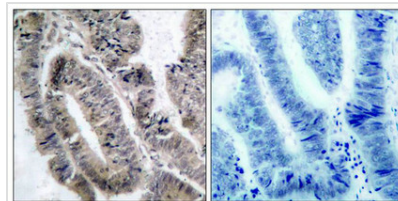


Phospho-PRKAA1/PRKAA2 (Ser487) Antibody

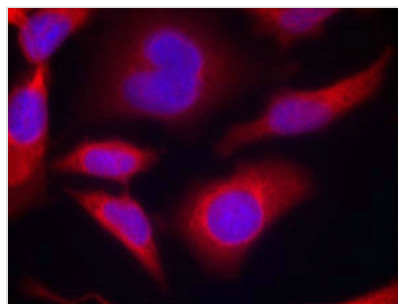
Product Code	CSB-PA261465
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13131
Immunogen	Peptide sequence around phosphorylation site of serine 487 (S-G- SP-V-S) derived from Human AMPKa1.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of AMPKa1 only when phosphorylated at serine 487.
Tested Applications	ELISA,WB,IHC,IF;WB:1:500-1:1000,IHC:1:50-1:100,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. Kim JE, et al. (2005) J Proteome Res. 4(4): 1339-1346. Woods A, et al. (2003) J Biol Chem. 278(31): 28434-28442.
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 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	AAPK1; AMPK alpha-1 chain; AMPK-alpha1; HMG-CoA redustase kinase; PRKAA1
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	PRKAA1/PRKAA2
Image	



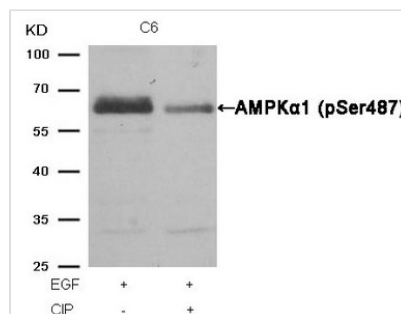
Western blot analysis of extracts from HUVEC cells untreated or treated with UV using AMPKα1(Phospho-Ser487)Antibody.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AMPKα1(Phospho-Ser487)Antibody(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using AMPKα1(Phospho-Ser487)Antibody.



Western blot analysis of extracts from C6 cells, treated with EGF or calf intestinal phosphatase (CIP), using AMPKα1 (Phospho-Ser487) Antibody.

Product Modify

Phospho-Ser487