Product Datasheet

AMPKα1 (Phospho-Ser496)Antibody

Catalog No: #11174

Package Size: #11174-1 50ul #11174-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

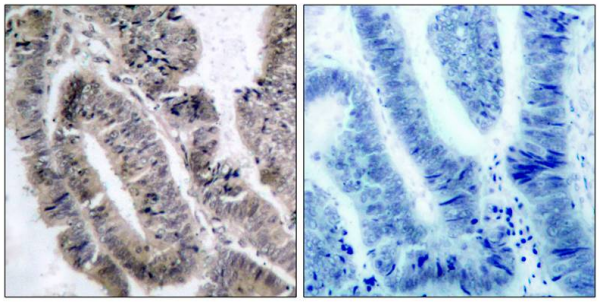
Description

Product Name	AMPKα1 (Phospho-Ser496)Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	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 using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of AMPKα1 only when phosphorylated at serine 496.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 496 (S-G- S(P)-V-S) derived from Human AMPKα1.
Target Name	AMPKa1
Modification	Phospho
Other Names	AAPK1; AMPK alpha-1 chain; AMPK-alpha1; HMG-CoA redustase kinase; PRKAA1
Accession No.	Swiss-Prot: Q13131NCBI Protein: NP_006242.5
Uniprot	Q13131
GeneID	5562;
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

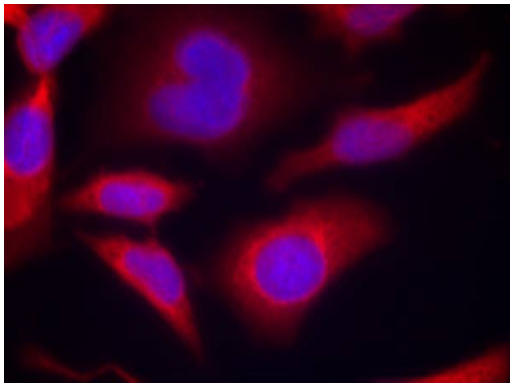
Application Details

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:50-200

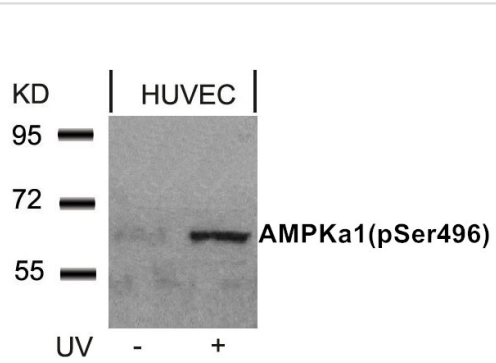
Images



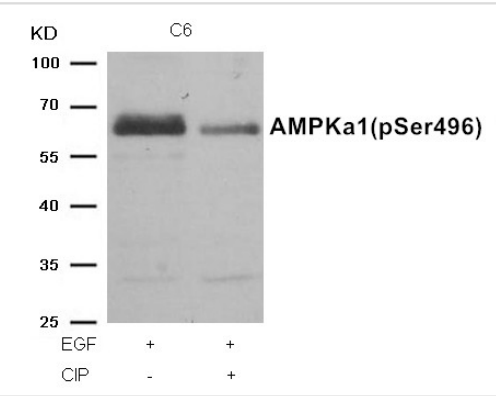
Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AMPKα1 (Phospho-Ser496)Antibody #11174 (left) or the same antibody preincubated with blocking peptide (right).



Immunofluorescence staining of methanol-fixed Hela cells using AMPKα1(Phospho-Ser496)Antibody #11174.



Western blot analysis of extracts from HUVEC cells untreated or treated with UV using AMPKα1 (Phospho-Ser496)Antibody #11174.



Western blot analysis of extracts from C6 cells, treated with EGF or calf intestinal phosphatase (CIP), using AMPKα1 (Phospho-Ser496) Antibody #11174.

Background

The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008],

Note: This product is for in vitro research use only