

AMPK α 1 Polyclonal Antibody

Catalog No: #21130



Package Size: #21130-1 50ul #21130-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

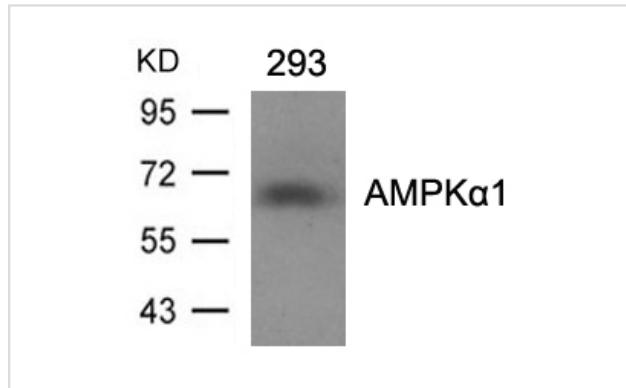
Description

Product Name	AMPK α 1 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC
Species Reactivity	Human
Specificity	The antibody detects endogenous level of total AMPK α 1 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.494~498 (S-G-S-V-S) derived from Human AMPK α 1.
Conjugates	Unconjugated
Target Name	AMPK α 1
Other Names	AAPK1; AMPK alpha-1 chain; AMPK-alpha1; HMG-CoA redustase kinase; PRKAA1
Accession No.	Swiss-Prot: Q13131/P54646NCBI Protein: NP_006242.5
Calculated MW	64kDa
SDS-PAGE MW	64kDa
Concentration	1.0mg/ml
Formulation	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.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

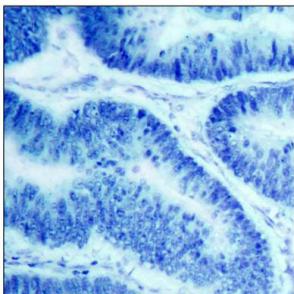
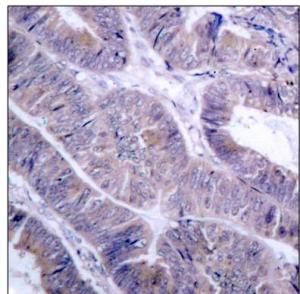
Application Details

WB 1:500-1:2000; IHC 1:100-1:300;

Images



Western blot analysis of extracts from 293 cells using AMPK α 1(Ab-496) Antibody #21130.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AMPKa1(Ab-496) Antibody #21130(left) or the same antibody preincubated with blocking peptide(right).

Background

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.

Published Papers

et al., Construction of adiponectin-encoding plasmid DNA and overexpression in mice in vivo. In Gene on 2012 Jul 10 by Huang YN, Qi JH, et al.. PMID:22561699, , (2012)

PMID:22561699

Note: This product is for in vitro research use only and is not intended for use in humans or animals.