AMPKα1/AMPKα2 (Ab-183/172) Antibody

1.0mg/ml

sodium azide and 50% glycerol.

Catalog No: #21191

Description

Package Size: #21191-1 50ul #21191-2 100ul



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

Description	
Product Name	AMPKα1/AMPKα2 (Ab-183/172) 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,IF,ELISA
Species Reactivity	Human,Mouse,Rat,Monkey,Bovine,Fish
Specificity	The antibody detects endogenous level of total AMPKa1/AMPKa2 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 181~185/170~174 (L-R-T-S-C) derived from Human AMPKα1/AMPKα2.
Target Name	AMPKa1/AMPKa2
Other Names	AMPK, AMPKa1
Accession No.	Swiss-Prot: Q13131NCBI Protein: NP_006242.5 NP_006243.2
Uniprot	Q13131
GeneID	5562;

Application Details

Concentration

Formulation

Storage

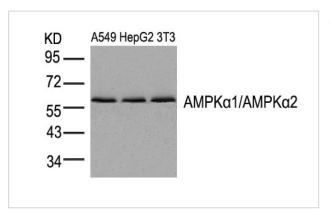
Predicted MW: 63kd

Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

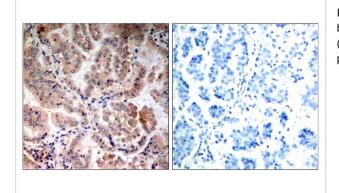
Images



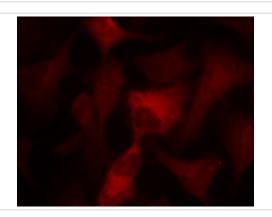
Western blot analysis of extracts from A549, HepG2 and 3T3 cells using AMPKα1/AMPKα2 (Ab-183/172) Antibody #21191.

Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%

Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKα1/AMPKα2 (Ab-183/172) Antibody #21191 (left) or the same antibody preincubated with blocking peptide (right).



Immunofluorescence staining of methanol-fixed Hela cells using AMPKlpha1/AMPKlpha2(Ab-183/172) Antibody #21191.

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.

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.

Note: This product is for in vitro research use only