

AMPKa1/AMPKa2(Ab-174/172) Antibody

Catalog No: #21191



Package Size: #21191-1 50ul #21191-2 100ul #21191-4 25ul

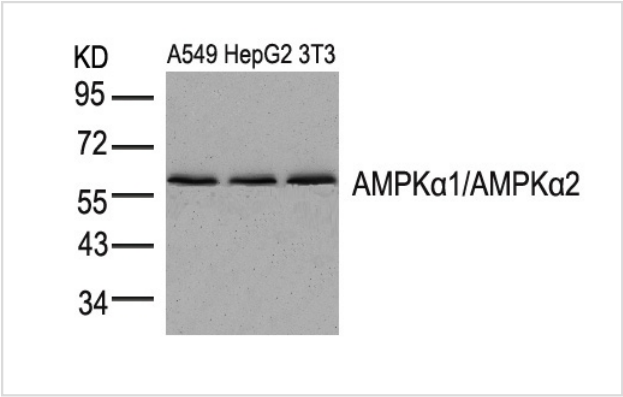
Overview

Product Name	AMPKa1/AMPKa2(Ab-174/172) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	AMPKa1/AMPKa2
Alternative Names	AMPK, AMPKa1

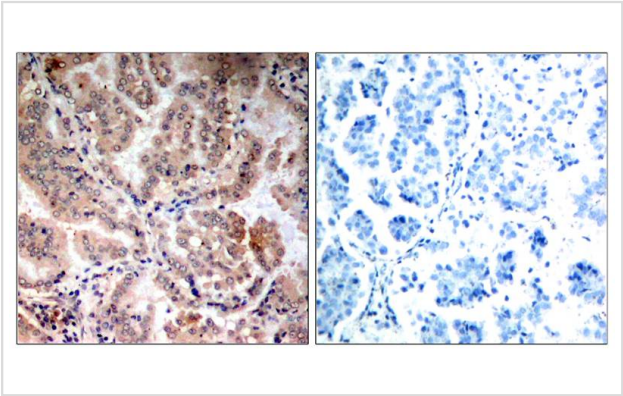
Application Details

Predicted MW: 63kd
Western blotting: 1:500~1:1000
Immunohistochemistry: 1:50~1:100
Immunofluorescence: 1:100~1:200

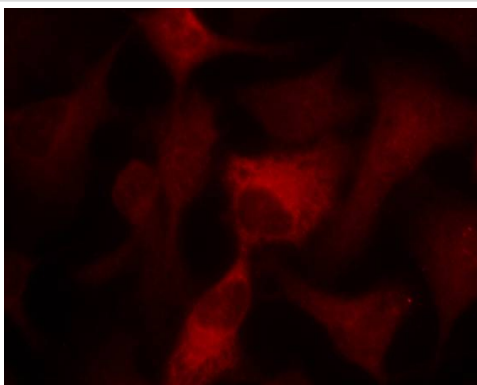
Images



Western blot analysis of extracts from A549, HepG2 and 3T3 cells using AMPKa1/AMPKa2(Ab-174/172) Antibody #21191.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AMPKa1/AMPKa2(Ab-174/172) Antibody #21191(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using AMPKα1/AMPKα2(Ab-174/172) Antibody #21191.

Descriptions

Immunogen	Peptide sequence around aa. 172~176/170~174 (L-R-T-S-C) derived from Human AMPKα1/AMPKα2.
Specificity	The antibody detects endogenous level of total AMPKα1/AMPKα2 protein.
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
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.
Accession NO.	Swiss-Prot: Q13131NCBI Protein: NP_006242.5 NP_006243.2

Related Information

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 and is not intended for use in humans or animals.