Product Datasheet

AMPK alpha 1/2 (Phospho-Thr183/Thr172) Rabbit mAb

Catalog No: #14179

Package Size: #14179-1 50ul #14179-2 100ul

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

Description

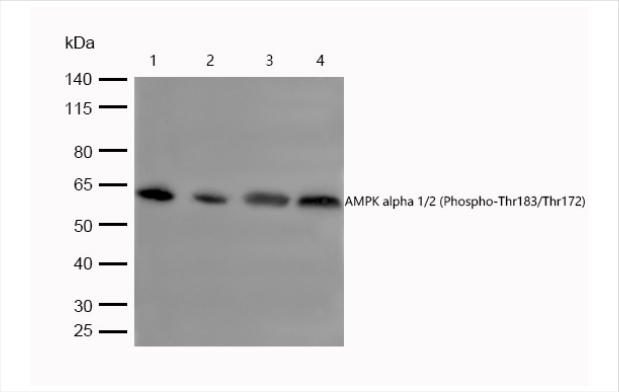
Product Name	AMPK alpha 1/2 (Phospho-Thr183/Thr172) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Purification	Affinity-chromatography
Applications	WB,IHC
Species Reactivity	Human;Mouse;Rat
Specificity	Phospho-AMPK alpha (T172) Antibody detects endogenous levels of Phospho-AMPK alpha (T172)
Immunogen Description	A synthesized peptide derived from human AMPK alpha
Conjugates	Unconjugated
Other Names	ACACA kinase; Acetyl-CoA carboxylase kinase; AMPK alpha 2 chain; AMPK subunit alpha-2; AMPK2; AMPKalpha2; HMGCR kinase; PRKAA; PRKAA2;
Accession No.	Uniprot:Q13131/P54646
Calculated MW	64,62 kDa
SDS-PAGE MW	62 kDa
Formulation	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Application Details

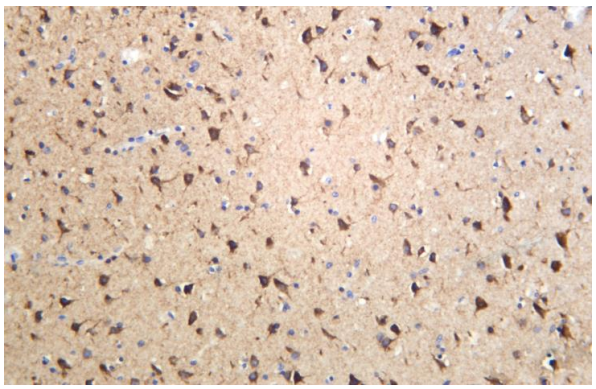
WB: 1:500-1:2000

IHC: 1:50-1:200

Images



All lanes : AMPK alpha 1/2 (Phospho-Thr183/Thr172) Rabbit mAb at 1/1k dilutionLane 1 :Mouse spleen lysateLane 2 : 293 cell lysate Lane 3 : A735 cell lysateLane 4 : Mouse heart lysatelysate/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 64,62 kDa Observed band size: 62 kDaExposure time: 14 seconds



Formalin-fixed;paraffin-embedded human brain tissue stained for AMPK alpha (Phospho-Thr172) using 14179 at 1/100 dilution in immunohistochemical analysis.

Product Description

AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic α subunit and regulatory β and γ subunits, each of which is encoded by two or three distinct genes (α1, 2; β1, 2; γ1, 2, 3).

Published Papers

Sun Changfa, Hao Shilei, Wang Lili, Meng Run, Wang Hui, Li Wenfeng, Deng Jia, Yin Qiudan, Chen Xiaoliang, Xiang Tingxiu, Liu Zuojin, Zheng Haiming, Luo Zhongli, Cai Kaiyong, Wang Bochu, Zhang Shuguang, Qing Rui el at., Inhibiting cancer metastasis with water-solubilized membrane receptor CXCR4QTY-Fc as a molecular trap, Cell chemical biology, (2025)

PMID:40845831

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