Datasheet for ABIN7201115

anti-PRKAA1/PRKAA2 antibody (pThr172, pThr183)

1 Image

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Overview

Quantity:	100 µL
Target:	PRKAA1/PRKAA2
Binding Specificity:	pThr172, pThr183
Reactivity:	Human, Mouse, Rat, Pig, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1/PRKAA2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Purpose:	AMPKα1/2 (phospho Thr183/172) Polyclonal Antibody
Immunogen:	Synthesized peptide derived from human AMPKalpha1/2 Phospho-Thr183/172
Isotype:	IgG
Specificity:	Phospho-AMPKα1/2 (T183/172) Polyclonal Antibody detects endogenous levels of AMPKα1/2 protein only when phosphorylated at T183/172.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	PRKAA1/PRKAA2

Target Details

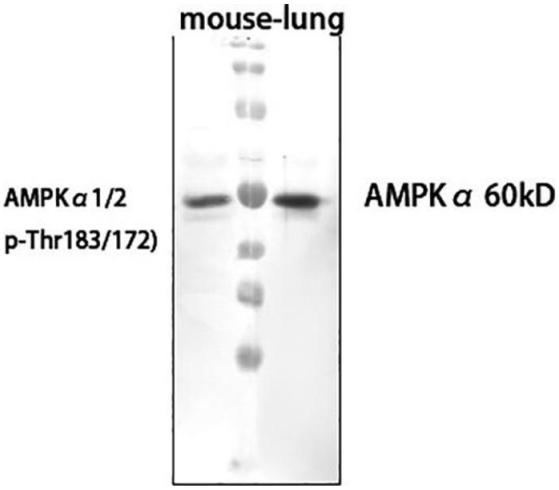
Alternative Name:	AMPKalpha1/2 (PRKAA1/PRKAA2 Products)
Background:	Rabbit Anti-AMPKα1/2 (phospho Thr183/172) Polyclonal Antibody,PRKAA1, AMPK1, 5'-AMP-activated protein kinase catalytic subunit alpha-1, AMPK subunit alpha-1, Acetyl-CoA carboxylase kinase, ACACA kinase, Hydroxymethylglutaryl-CoA reductase kinase, HMGCR kinase, Tau-protein kinase PRKAA1, PRKAA2, AMPK,Protein kinase AMP-activated catalytic subunit alpha 1 encoded by PRKAA1 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.,5'-AMP-activated protein kinase catalytic subunit alpha-1
Gene ID:	5562, 5563

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IF (1:50-1:200), IHC-P (1:100-1:300), ELISA (1:40000). Not yet tested in other applications.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.



Western Blotting

Image 1. Western Blot analysis of mouse lung cells using primary antibody diluted at 1:1000 (4 °C overnight).