

Datasheet for ABIN3032382

anti-PRKAA1 antibody (AA 474-502)

3 Images

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Overview

Quantity:	0.4 mL
Target:	PRKAA1
Binding Specificity:	AA 474-502
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A portion of amino acids 474-502 from human PRKAA1 was used as the immunogen for this AMPK antibody.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	PRKAA1
Alternative Name:	AMPK (PRKAA1) (PRKAA1 Products)
Background:	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

Target Details

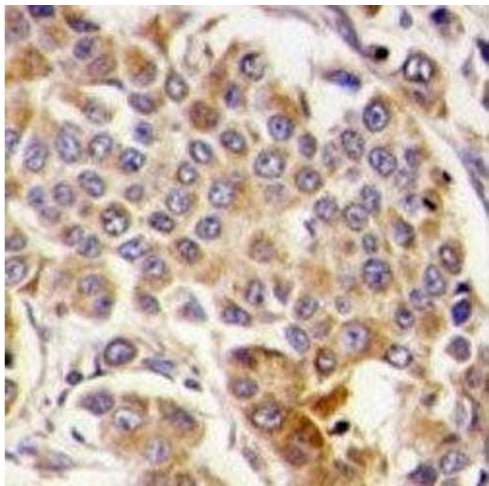
	AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways.
UniProt:	Q13131
Pathways:	AMPK Signaling , Carbohydrate Homeostasis , Regulation of Carbohydrate Metabolic Process , Warburg Effect

Application Details

Application Notes:	Titration of the AMPK antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50
Restrictions:	For Research Use only

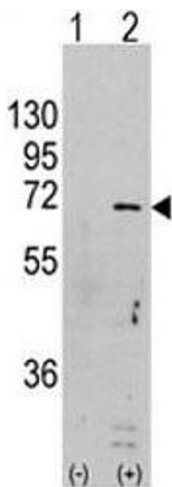
Handling

Format:	Liquid
Buffer:	In 1X PBS pH 7.4 with 0.09 % 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:	Aliquot the AMPK antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



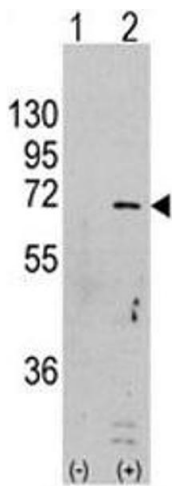
Immunohistochemistry

Image 1. IHC analysis of FFPE human breast carcinoma tissue stained with AMPK antibody



Western Blotting

Image 2. Western blot analysis of AMPK antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKAA1 gene (2).



Western Blotting

Image 3. Western blot analysis of AMPK antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKAA1 gene (2).