

Datasheet for ABIN3032383

anti-PRKAA1 antibody (AA 479-510)**3** Images[Go to Product page](#)

Overview

Quantity:	0.4 mL
Target:	PRKAA1
Binding Specificity:	AA 479-510
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAA1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	A portion of amino acids 479-510 from the human protein was used as the immunogen for this AMPK antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	PRKAA1
Alternative Name:	AMPK (PRKAA1) (PRKAA1 Products)
Background:	AMPK is 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. It appears to act as a

Target Details

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. AMPK alpha 1, a member of the Ser/Thr protein kinase family, is a catalytic subunit of AMPK.

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
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.



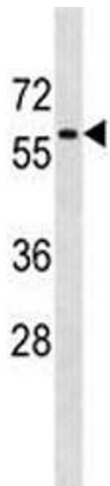
Western Blotting

Image 1. AMPK antibody western blot analysis in SK-BR-3 lysate



Western Blotting

Image 2. Western blot analysis of AMPK antibody and mouse liver lysate



Western Blotting

Image 3. AMPK antibody western blot analysis in SK-BR-3 lysate