



Anti-PRKAA2 (aa 353-367) polyclonal antibody (DPABH-15563)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Specificity	This antibody recognizes human AMP activated protein kinase (AMPK) alpha 2.
Immunogen	Synthetic peptide: CDDSAMHIPGLKPHP conjugated to KLH, corresponding to amino acids 353-367 of Human AMPK alpha 2, with an N-terminal cysteine added for conjugation.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Size	100 µl
Preservative	0.05% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated

freeze / thaw cycles.

GENE INFORMATION

Gene Name	PRKAA2 protein kinase, AMP-activated, alpha 3 catalytic subunit [Homo sapiens]
Official Symbol	PRKAA2
Synonyms	PRKAA2; protein kinase, AMP-activated, alpha 2 catalytic subunit; AMPK; AMPK2; PRKAA; AMPKa2; 5-AMP-activated protein kinase catalytic subunit alpha-2; ACACA kinase; HMGCR kinase; AMPK-alpha-2 chain; AMPK subunit alpha-2; acetyl-CoA carboxylase kinase; hydroxymethylglutaryl-CoA reductase kinase; AMP-activated protein kinase alpha-2 subunit variant 2; AMP-activated protein kinase alpha-2 subunit variant 3; 5-AMP-activated protein kinase, catalytic alpha-2 chain;
Entrez Gene ID	5563
Protein Refseq	NP_006243.2
UniProt ID	P54646
Pathway	AMPK inhibits chREBP transcriptional activation activity; Activation of PPARGC1A (PGC-1alpha) by phosphorylation; Adipocytokine signaling pathway; Circadian rhythm
Function	AMP-activated protein kinase activity; ATP binding; [acetyl-CoA carboxylase] kinase activity; [hydroxymethylglutaryl-CoA reductase (NADPH)] kinase activity