



Anti-PRKAA2 polyclonal antibody, clone O4D3 (DPABY-710)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia. [provided by RefSeq]
Immunogen	Recombinant fragment corresponding to a region within amino acids 202 and 457 of AMPK alpha 2 (Uniprot ID#P54646)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	O4D3
Purification	Purified by antigen-affinity chromatography.
Conjugate	Unconjugated
Applications	ELISA Pr*, IHC-P, WB
Molecular Weight	62 kDa
Positive Control	HepG2

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Format	Liquid
Concentration	1 mg/ml
Size	25 μΙ
Buffer	1XPBS, 1%BSA, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Preservative	None
Storage	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRKAA2 protein kinase, AMP-activated, alpha 2 catalytic subunit [Homo sapiens (human)]
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; hy
Entrez Gene ID	<u>5563</u>
Protein Refseq	NP 006243
UniProt ID	<u>P54646</u>
Chromosome Location	1p31
Pathway	AMPK inhibits chREBP transcriptional activation activity; AMPK signaling; AMPK signaling pathway; Activation of PPARGC1A (PGC-1alpha) by phosphorylation; Adipocytokine signaling pathway; BDNF signaling pathway; Circadian rhythm; Corticotropin-releasing ho
Function	AMP-activated protein kinase activity; ATP binding; [acetyl-CoA carboxylase] kinase activity; [hydroxymethylglutaryl-CoA reductase (NADPH)] kinase activity; chromatin binding; histone serine kinase activity; metal ion binding; protein binding; protein kin

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