

# Product datasheet for TA322519

### AMPK alpha 2 (PRKAA2) Rabbit Polyclonal Antibody

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 16-268 amino acids of human protein kinase, AMP-activated, alpha 2 catalytic subunit
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	protein kinase AMP-activated catalytic subunit alpha 2
Database Link:	<u>NP_006243</u> <u>Entrez Gene 78975 RatEntrez Gene 108079 MouseEntrez Gene 5563 Human</u> <u>P54646</u>

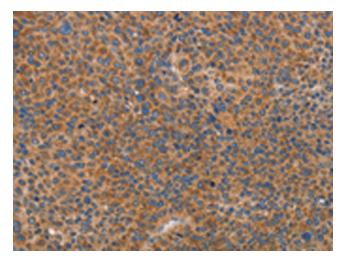


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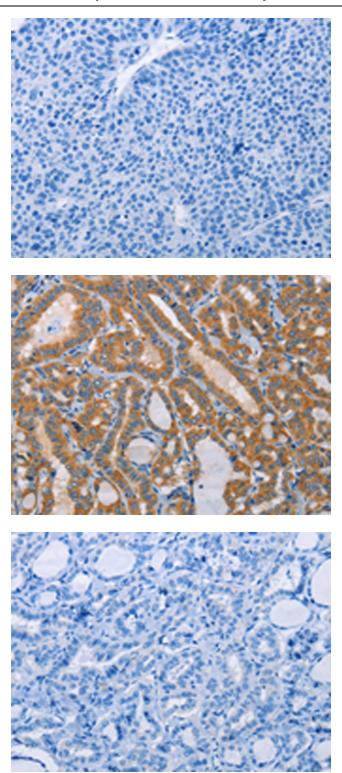
	AMPK alpha 2 (PRKAA2) Rabbit Polyclonal Antibody – TA322519
Background:	The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important 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.
Synonyms:	AMPK; AMPK2; AMPKa2; PRKAA
Protein Families	: Druggable Genome, Protein Kinase
Protein Pathway	<b>rs:</b> Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway, mTOR signaling pathway, Regulation of autophagy

# Product images:

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Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA322519 (PRKAA2 Antibody) at dilution 1/25 (Original magnification: ×200)

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Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA322519 (PRKAA2 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA322519 (PRKAA2 Antibody) at dilution 1/25 (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA322519 (PRKAA2 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: ×200)

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