

Recombinant Human PRKAA2

Catalog No: #GP11031



Package Size: #GP11031-1 100ug

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Description

Product Name	Recombinant Human PRKAA2
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 16-268 amino acids of human PRKAA2
Target Name	protein kinase, AMP-activated, alpha 2 catalytic subunit
Other Names	AMPK; AMPK2; PRKAA; AMPKa2
Accession No.	Swissprot:P54646Gene Accession:BC069680
Uniprot	P54646
GeneID	5563;
Storage	-20~-80°C, pH 7.6 PBS

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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