



Rabbit Anti-AMPK beta 1 monoclonal antibody, clone TE193-17 (CABT-L794)

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

PRODUCT INFORMATION

Target	AMPK beta 1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TE193-17
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, FC
Molecular Weight	38 kDa
Cellular Localization	Cytosol, Nucleoplasm.
Positive Control	A431.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

AMPK (for 5'-AMP-activated protein kinase) is a heterotrimeric complex comprising a catalytic α subunit and regulatory β and γ subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming bio-synthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase, and inhibition of dephosphorylation. Activated AMPK can phosphorylate and regulate in vivo hydroxy-methylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively. The human AMPK α 1 and AMPK α 2 genes encode 548 amino acid and 552 amino acid proteins, respectively. Human AMPK β 1 encodes a 271 amino acid protein and human AMPK β 2 encodes a 272 amino acid protein. The human AMPK γ 1 gene encodes a 331 amino acid protein. Human AMPK γ 2 and AMPK γ 3, which are 569 and 492 amino acid proteins, respectively, contain unique N-terminal domains and may participate directly in the binding of AMP within the AMPK complex.

Keywords

1300015D22Rik;5'-AMP-activated protein kinase subunit beta-1;5'-AMP-activated protein kinase beta-1 subunit;AAKB1_HUMAN;AMP-activated protein kinase beta subunit;AMP-ACTIVATED PROTEIN KINASE, NONCATALYTIC, BETA-1;AMP-activated, noncatalytic, beta-1;AMPK;AMPK beta 1 chain;AMPK subunit beta-1;AMPK-BETA-1;AMPKb;AU021155;E430008F22;HAMPKb;MGC17785;PRKAB1;Protein kinase AMP activated non catalytic subunit beta 1;protein kinase, AMP-activated, beta 1 non-catalytic subunit;protein kinase, AMP-activated, noncatalytic, beta-1 antibody

GENE INFORMATION

Entrez Gene ID

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