Anti-Phospho-AMPK alpha 2 (Ser491) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015346

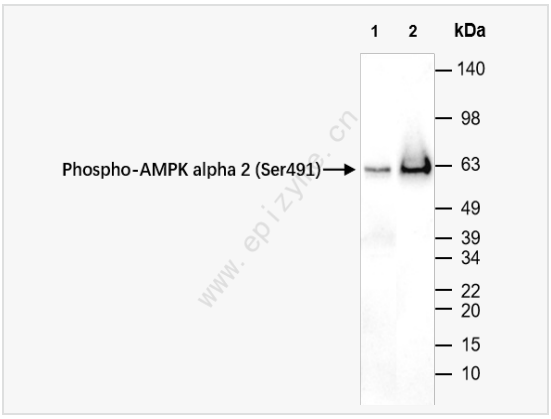
Product Information

Application	WB, ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	51S44C91
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser491 of human AMPK alpha 2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-AMPK alpha 2 (Ser491) Rabbit mAb [51S44C91] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	5'-AMP-activated protein kinase catalytic subunit alpha-2; AAPK2_HUMAN; ACACA kinase; Acetyl CoA carboxylase kinase; Acetyl-CoA carboxylase kinase; AMPK alpha 2 chain; AMPK subunit alpha-2; AMPK2; AMPKa2; AMPKalpha2; HMGCR kinase; Hydroxymethylglutaryl CoA reductase kinase; Hydroxymethylglutaryl-CoA reductase kinase; PRKAA; PRKAA2; Protein kinase AMP activated alpha 2 catalytic subunit; Protein kinase AMP activated catalytic subunit alpha 2.
Calculated MW	Calculated MW: 62 kDa; Observed MW: 62 kDa
Uniprot ID	P54646
Gene ID	5563
Background	The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm. Nucleus. In response to stress, recruited by p53/TP53 to specific promoters.

Validation Images



Western Blot - Anti-Phospho-AMPK alpha 2 (Ser491) Rabbit mAb [51S44C91]
All lanes: R015346 at 1:1,000 dilution
Lane 1: 293T (Human embryonic kidney cell) whole cell lysates
Lane 2: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 62 kDa
Observed band size: 62 kDa
Developed using the ECL technique (Cat. No. SQ201).