

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AMPKα2 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human AMPKα1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 847123
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AMPKα2 Phe340-Arg552 Accession # P54646
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

AMP-activated protein kinase (AMPK) is a heterotrimeric complex consisting of a catalytic α subunit and regulatory β and δ subunits. The α subunit of AMPK is activated allosterically by AMP, and by phosphorylation via the AMPK kinase LKB1. Active AMPK down-regulates anabolic pathways such as fatty acid and cholesterol synthesis, and up-regulates catabolic pathways such as glycolysis and fatty acid oxidation.

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