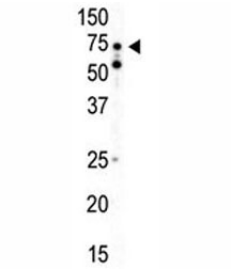
AMPK alpha 2 Antibody (F50190)

Catalog No.	Formulation	Size
F50190-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50190-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P54646
Applications	Western blot: 1:1000
Limitations	This AMPK alpha 2 antibody is available for research use only.



Western blot analysis of AMPK alpha 2 antibody and mouse heart tissue lysate

Description

AMPK alpha 2 is a catalytic subunit of the AMP-activated protein kinase (AMPK). It acts as a key regulator of glucose homeostasis in liver by phosphorylating CRTC2/TORC2, leading to CRTC2/TORC2 sequestration in the cytoplasm. In response to stress, phosphorylates 'Ser-36' of histone H2B (H2BS36ph), leading to promote transcription. Acts as a key regulator of cell growth and proliferation by phosphorylating TSC2, RPTOR and ATG1/ULK1: in response to nutrient limitation, negatively regulates the mTORC1 complex by phosphorylating RPTOR component of the mTORC1 complex and by phosphorylating and activating TSC2. [UniProt]

Application Notes

Titration of the AMPK alpha 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 476-507 from the human protein was used as the immunogen for this AMPK alpha 2 antibody.

Storage

Aliquot the AMPK alpha 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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