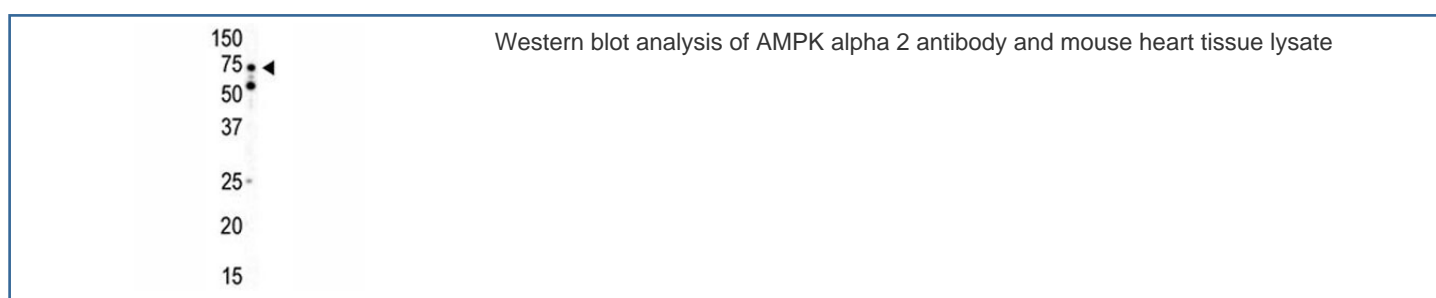


## AMPK alpha 2 Antibody (F50190)

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**

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



## 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.