

For Research Use Only

Phospho-AMPK Beta 1 (Ser182) Recombinant antibody, PBS Only

Catalog Number: 83924-1-PBS



Basic Information

Catalog Number:

83924-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC001007

GeneID (NCBI):

5564

UNIPROT ID:

Q9Y478

Full Name:

protein kinase, AMP-activated, beta 1
non-catalytic subunit

Calculated MW:

38 kDa

Observed MW:

38 kDa

Purification Method:

Protein A purification

CloneNo.:

240628B1

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Background Information

AMPK Beta 1 (5'-AMP-activated protein kinase subunit beta-1) is also named as PRKAB1 and AMPK. AMPK, a serine/threonine kinase that exists as a heterotrimer comprised of a catalytic α -subunit and regulatory β - and γ -subunits, has been recognized as a sensor of cellular energy homeostasis (PMID: 21937710). AMPK regulates key metabolic enzymes, cell growth, apoptosis, gene transcription, and protein synthesis (PMID: 12829246). AMPK is an energy sensor and plays an essential role in the control of cellular bioenergetics by responding to various stresses including those that induce changes in the cellular AMP:ATP ratio or modulation in intracellular calcium (PMID: 27812976, PMID: 26616193). Recent studies have shown that AMPK mediates the inhibition of cell proliferation and growth of tumor cells (PMID: 16613876). AMPK also inhibits the expression of Glut1 and glycolysis in Tregs by inhibiting mTORC1 signaling (PMID: 25477880). This antibody recognizes phosphorylated AMPK Beta 1.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

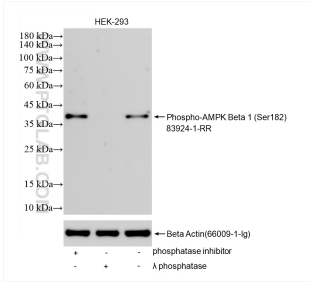
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Non-treated HEK-293 cells, phosphatase inhibitor treated HEK-293 cells and λ phosphatase treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 83924-1-RR (Phospho-AMPK Beta 1 (Ser182) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-ig) antibody as a loading control. This data was developed using the same antibody clone with 83924-1-

