

For Research Use Only

Phospho-AMPK Beta 1 (Ser182) Recombinant antibody



Catalog Number: 83924-1-RR **1 Publications**

Basic Information

Catalog Number: 83924-1-RR	GenBank Accession Number: BC001007	Purification Method: Protein A purification
Size: 500 µg/ml	GeneID (NCBI): 5564	CloneNo.: 240628B1
Source: Rabbit	UNIPROT ID: Q9Y478	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: protein kinase, AMP-activated, beta 1 non-catalytic subunit	
	Calculated MW: 38 kDa	
	Observed MW: 38 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293 cells,
Cited Applications: WB	
Species Specificity: human	
Cited Species: mouse	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Dong Wang	39094439	Phytomedicine	WB

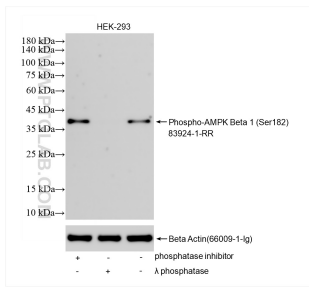
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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.