

For Research Use Only

Phospho-STK11/LKB1 (Ser334) Recombinant monoclonal antibody, PBS Only

Catalog Number: 87893-2-PBS



Basic Information

Catalog Number: 87893-2-PBS	GenBank Accession Number: BC007981	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6794	CloneNo.: 252441A6
Source: Rabbit	UNIPROT ID: Q15831	
Isotype: IgG	Full Name: serine/threonine kinase 11	
	Calculated MW: 49 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

STK11 (serine/threonine-protein kinase 11) is also named as LKB1, PJS, and belongs to the protein kinase superfamily. Phospho-STK11 (Ser334), also called p-LKB1 (S334), is an inhibitory phosphorylation modification of the tumor suppressor kinase LKB1. This site is phosphorylated by Akt and PIM kinases upon growth factor stimulation. Phosphorylated Ser334 recruits 14-3-3 proteins, sequestering LKB1 in the nucleus and disrupting its binding to STRAD α -MO25 complex. This abolishes LKB1's capacity to activate AMPK, impairing energy sensing, autophagy and anti-proliferative signals. Elevated p-LKB1 (Ser334) accelerates proliferation in breast, prostate and lung cancers, weakens metabolic stress response, and correlates with poor tumor prognosis. It serves as a biomarker for aberrant PI3K/Akt oncogenic signaling and represents a target to restore LKB1 tumor-suppressive function. (PMID: 22611470, 34193159)

Storage

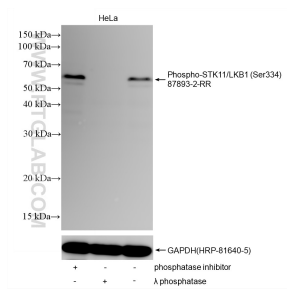
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Non-treated HeLa cells, phosphatase inhibitor treated HeLa cells and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 87893-2-RR (Phospho-STK11/LKB1 (Ser334) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (HRP-81640-5) antibody as a loading control. This data was developed using the same antibody clone with 87893-2-

