

For Research Use Only

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

Catalog Number: 87893-2-PBS



## Basic Information

|                                |                                          |                                                |
|--------------------------------|------------------------------------------|------------------------------------------------|
| Catalog Number:<br>87893-2-PBS | GenBank Accession Number:<br>BC007981    | Purification Method:<br>Protein A purification |
| Source:<br>Rabbit              | GeneID (NCBI):<br>6794                   | CloneNo.:<br>252441A6                          |
| Isotype:<br>IgG                | UNIPROT ID:<br>Q15831                    |                                                |
|                                | Full Name:<br>serine/threonine kinase 11 |                                                |
|                                | Calculated MW:<br>49 kDa                 |                                                |
|                                | Observed MW:<br>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 $\alpha$ -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.

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:

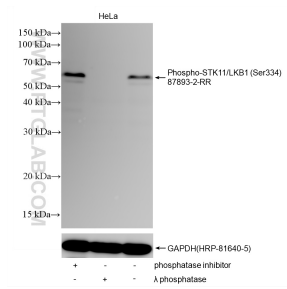
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W: [ptgcn.com](http://ptgcn.com)

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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-

