

Phospho-STK11/LKB1 (Thr189)

Recombinant antibody

Catalog Number: 80127-1-RR

1 Publications

Basic Information

Catalog Number:

80127-1-RR

Size:

250 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC007981

GeneID (NCBI):

6794

UNIPROT ID:

Q15831

Full Name:

serine/threonine kinase 11

Calculated MW:

49 kDa

Observed MW:

50-55 kDa

Purification Method:

Protein A purification

CloneNo.:

5J9

Recommended Dilutions:

WB 1:1000-1:10000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, ELISA, IF/ICC, FC (Intra)

Cited Applications:

WB

Species Specificity:

Human, Mouse

Cited Species:

mouse

Positive Controls:

WB : PC-3 cells, HEK-293 cells, NIH/3T3 cells, Calyculin A treated HEK-293 cells, Calyculin A treated PC-3 cells, Calyculin A treated NIH/3T3 cells

IF/ICC : Calyculin A treated PC-3 cells,

Background Information

STK11 (serine/threonine-protein kinase 11) is also named as LKB1, PJS, and belongs to the protein kinase superfamily. It controls the activity of AMP-activated protein kinase (AMPK) family members, thereby playing a role in various processes such as cell metabolism, cell polarity, apoptosis and DNA damage response. The tumour suppressor protein LKB1 is a serine/threonine kinase that has been causally linked to Peutz-Jeghers syndrome (PJS). Defects in STK11 are a cause of Peutz-Jeghers syndrome (PJS) and defects in STK11 have been associated with testicular germ cell tumor (TGCT) and some sporadic cancers, especially lung cancers.

Notable Publications

Author	Pubmed ID	Journal	Application
Bingbing Liu	38452099	PLoS One	WB

Storage

Storage:

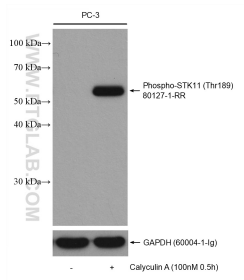
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

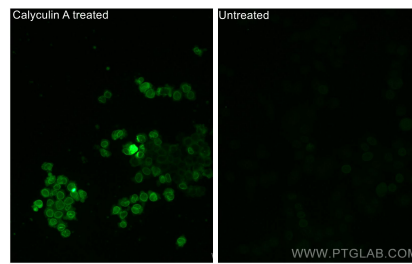
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

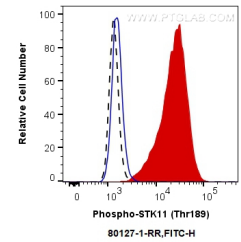
Selected Validation Data



Non-treated PC-3 and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 80127-1-RR (Phospho-STK11/LKB1 (Thr189) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed non-treated PC-3 cells and Calyculin A treated PC-3 cells using Phospho-STK11/LKB1 (Thr189) antibody (80127-1-RR, Clone: 5J9) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ PC-3 cells untreated (dashed lines) or Calyculin A treated (red) were intracellularly stained with 0.25 ug Anti-Human Phospho-STK11 (Thr189) (80127-1-RR, Clone:5J9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.