

For Research Use Only

# STK11/LKB1 Monoclonal antibody, PBS Only



Catalog Number: 68016-1-PBS

## Basic Information

Catalog Number:

68016-1-PBS

Size:

1mg/ml

Source:

Mouse

Isotype:

IgG1

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 G purification

CloneNo.:

2D11E5

## Applications

Tested Applications:

WB, IF, IHC, Indirect ELISA

Species Specificity:

Human, mouse, rat

## 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. STK11 has 2 isoforms with MW of 49 kDa and 45 kDa, and can be detected as 50-54 kDa after posttranslational modification.

## 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

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

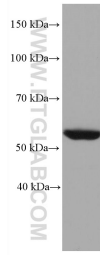
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

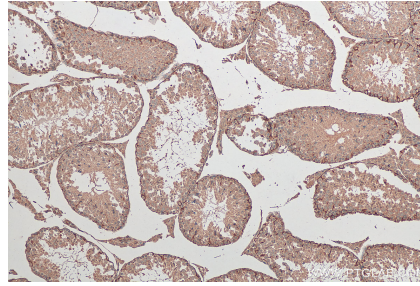
W: [ptgcn.com](http://ptgcn.com)

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

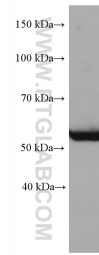
## Selected Validation Data



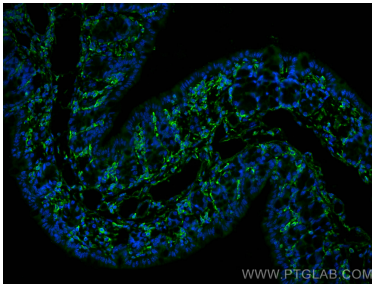
HEK-293 cells were subjected to SDS PAGE followed by western blot with 68016-1-Ig (STK11/LKB1 antibody) at dilution of 1:4900 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68016-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68016-1-Ig (STK11/LKB1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68016-1-PBS in a different storage buffer formulation.



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 68016-1-Ig (STK11/LKB1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68016-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse colon tissue using STK11/LKB1 antibody (68016-1-Ig, Clone: 2D11E5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68016-1-PBS in a different storage buffer formulation.