

For Research Use Only

# STK11/LKB1 Monoclonal antibody

Catalog Number: 68016-1-Ig



## Basic Information

<b>Catalog Number:</b> 68016-1-Ig	<b>GenBank Accession Number:</b> BC007981	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6794	<b>CloneNo.:</b> 2D11E5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q15831	<b>Recommended Dilutions:</b> WB 1:1000-1:9800
<b>Isotype:</b> IgG1	<b>Full Name:</b> serine/threonine kinase 11	IHC 1:250-1:1000
	<b>Calculated MW:</b> 49 kDa	IF-P 1:200-1:800
	<b>Observed MW:</b> 50-55 kDa	IF/ICC 1:250-1:1000

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IF-P, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HEK-293 cells, PC-3 cells, NIH/3T3 cells, Calyculin A treated HSC-T6 cells

**IHC :** mouse testis tissue,

**IF-P :** mouse colon tissue,

**IF/ICC :** SKOV-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. STK11 has 2 isoforms with MW of 49 kDa and 45 kDa, and can be detected as 50-54 kDa after posttranslational modification.

## Storage

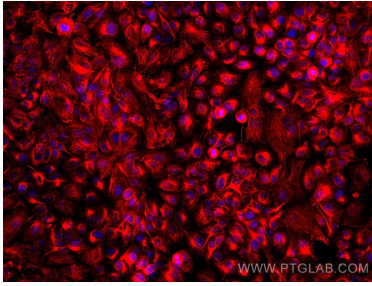
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

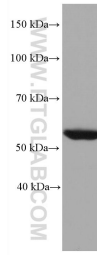
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

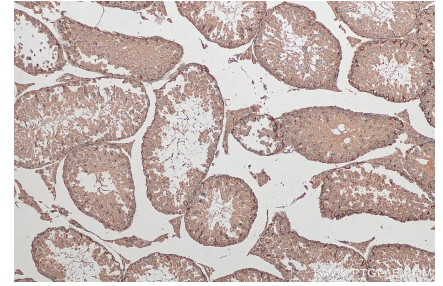
## Selected Validation Data



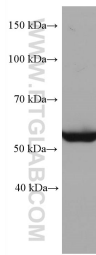
Immunofluorescent analysis of (4% PFA) fixed SKOV-3 cells using STK11/LKB1 antibody (68016-1-Ig, Clone: 2D11E5) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



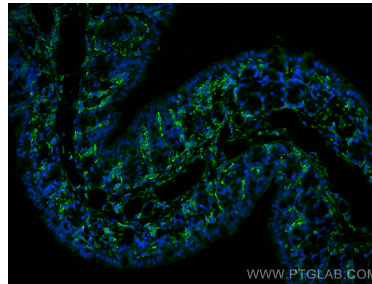
HEK-293 cells were subjected to SDS PAGE followed by western blot with 68016-1-Ig (STK11/LKB1 antibody) at dilution of 1:4900 incubated at room temperature for 1.5 hours.



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).



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.



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).