

For Research Use Only

# STK11/LKB1 Polyclonal antibody

Catalog Number: 10746-1-AP

Featured Product

58 Publications



## Basic Information

### Catalog Number:

10746-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1048

### 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:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, pig, hamster

### Positive Controls:

WB : HepG2 cells,

IP : HEK-293 cells,

IHC : human lung cancer tissue, human testis tissue, human breast cancer tissue

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

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yue Hu	32945133	Thorac Cancer	WB
Zhan Zhao	28959186	Front Mol Neurosci	WB
Mengqiu Yuan	34472622	EMBO J	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

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

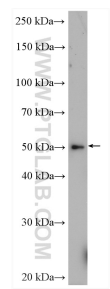
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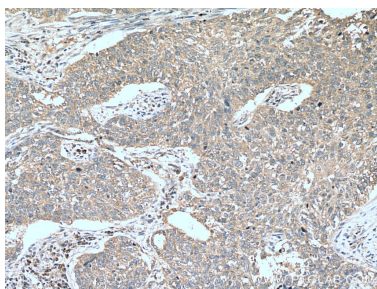
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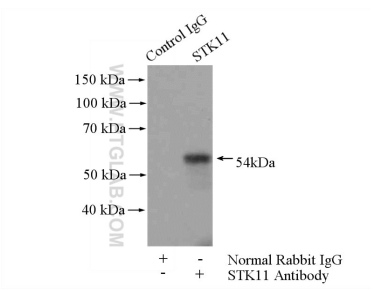
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 10746-1-AP (LKB1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10746-1-AP (STK11/LKB1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-STK11/LKB1 (IP:10746-1-AP, 4ug; Detection:10746-1-AP 1:500) with HEK-293 cells lysate 2000ug.