

For Research Use Only

# STK11/LKB1 Polyclonal antibody

Catalog Number: 29323-1-AP

Featured Product

1 Publications



## Basic Information

Catalog Number:

29323-1-AP

Concentration:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30903

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 1:2000-1:10000

IHC 1:300-1:1200

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse

Cited Species:

mouse

**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 : A431 cells, MCF-7 cells, HEK-293T cells

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

## 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
Yuechu Zhao	39731709	Free Radic Res	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

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

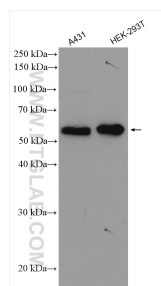
T: 4006900926

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

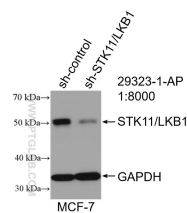
W: [ptgcn.com](http://ptgcn.com)

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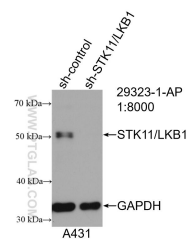
## Selected Validation Data



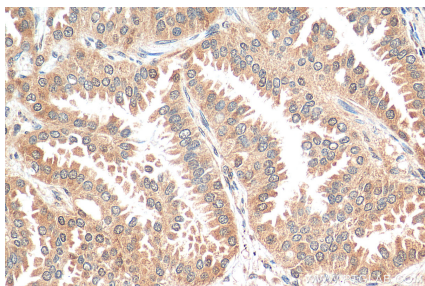
Various lysates were subjected to SDS PAGE followed by western blot with 29323-1-AP (STK11 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of STK11/LKB1 antibody (29323-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-STK11/LKB1 transfected MCF-7 cells.



WB result of STK11/LKB1 antibody (29323-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-STK11/LKB1 transfected A431 cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 29323-1-AP (STK11/LKB1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).