

For Research Use Only

STK11/ LKB1 Polyclonal antibody



Catalog Number: 10746-1-AP

Featured Product

12 Publications

Basic Information

Catalog Number:
10746-1-AP

Size:
150UL, Concentration: 227 µg/ml by
Bradford method using BSA as the
standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1048

GenBank Accession Number:
BC007981

GeneID (NCBI):
6794

Full Name:
serine/threonine kinase 11

Calculated MW:
49 kDa

Observed MW:
54 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000
for WB

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

CoIP, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

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: HeLa cells, HepG2 cells

IP: HEK-293 cells,

IHC: human lung cancer tissue, human breast cancer
tissue, human testis 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
Yue Hu	32945133	Thorac Cancer	WB
Zhan Zhao	28959186	Front Mol Neurosci	WB
Qidong Li	31155494	Cell Metab	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

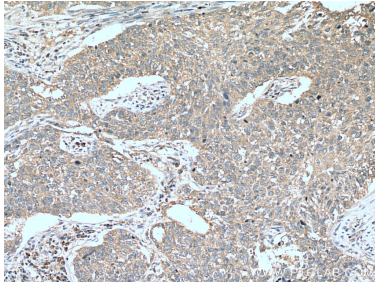
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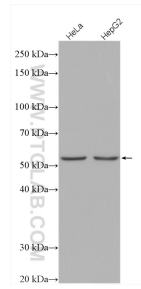
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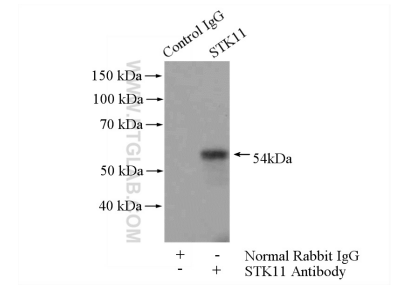
Selected Validation Data



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).



Various lysates were subjected to SDS PAGE followed by western blot with 10746-1-AP (LKB1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



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