

For Research Use Only

STK11/LKB1 Monoclonal antibody

Catalog Number: 66719-1-Ig



Basic Information

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|---|---|---|
| Catalog Number: 66719-1-Ig | GenBank Accession Number: BC007981 | Purification Method: Protein G purification |
| Size: 1300 µg/ml | GeneID (NCBI): 6794 | CloneNo.: 1H8E4 |
| Source: Mouse | UNIPROT ID: Q15831 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:400-1:1600 |
| Isotype: IgG1 | Full Name: serine/threonine kinase 11 | |
| Immunogen Catalog Number: AG13436 | Calculated MW: 49 kDa | |
| | Observed MW: 45-49 kDa | |

Applications

Tested Applications:
IF/ICC, IHC, WB, 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 : LNCaP cells, HeLa cells, HSC-T6 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, NIH/3T3 cells

IHC : human testis tissue, human breast cancer tissue

IF/ICC : HeLa 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

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

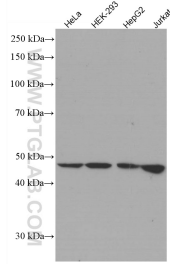
T: 4006900926

E: Proteintech-CN@ptglab.com

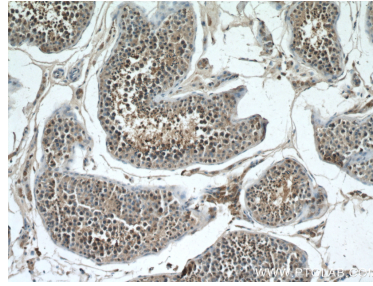
W: ptgcn.com

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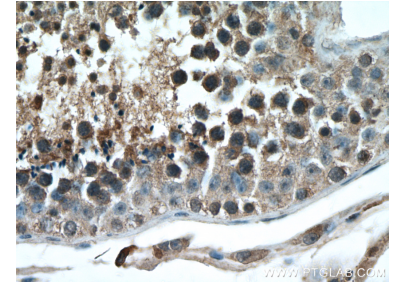
Selected Validation Data



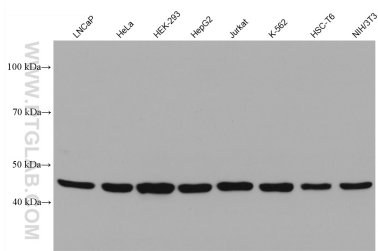
Various lysates were subjected to SDS PAGE followed by western blot with 66719-1-Ig (STK11/LKB1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66719-1-Ig (STK11/LKB1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66719-1-Ig (STK11/LKB1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66719-1-Ig (STK11/LKB1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.