

STK11/LKB1 Monoclonal antibody

Catalog Number: 68016-1-Ig

Basic Information

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

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HEK-293 cells, PC-3 cells, NIH/3T3 cells, Calyculin A treated HSC-T6 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0 ; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse testis tissue,
	IF-P : mouse colon tissue,
	IF/ICC : SKOV-3 cells,

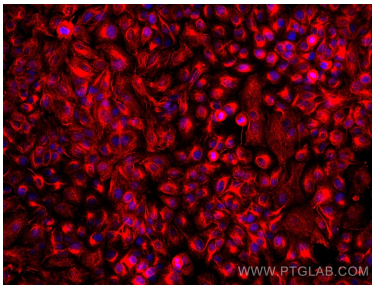
Background Information

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.

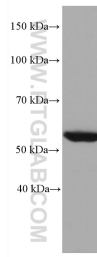
Storage

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

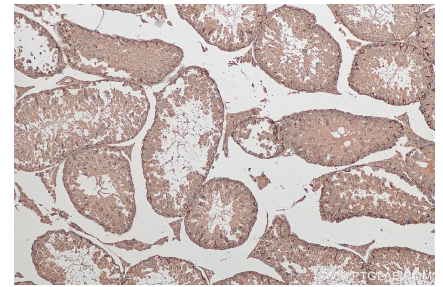
Selected Validation Data



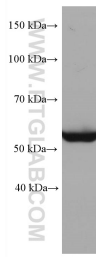
Immunofluorescent analysis of (4% PFA) fixed SKOV-3 cells using STK11/LKB1 antibody (68016-1-Ig, Clone: 2D11E5) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



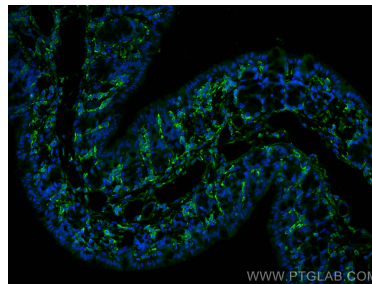
HEK-293 cells were subjected to SDS PAGE followed by western blot with 68016-1-Ig (STK11/LKB1 antibody) at dilution of 1:4900 incubated at room temperature for 1.5 hours.



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).