# Rabbit Anti－phospho－LKB1（Ser334）antibody 

## SL3248R

| Product Name： | phospho－LKB1（Ser334）U |
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| Chinese Name： | 磷酸化丝氨酸／苏氨酸蛋白激酶抗体 |
| Alias： | STK11（phospho S334）；LKB1（phospho Ser334）；p－LKB1（phospho Ser334）；p－ LKB1（S334）；LKB1；PJS；Renal carcinoma antigen NY－REN－19；Serine／Threonine Kinase 11；Serine／threonine protein kinase 11；Serine／threonine protein kinase LKB1； Serine／threonine－protein kinase 11；Serine／threonine－protein kinase LKB1；Stk11； STK11＿HUMAN；hLKB1；Liver kinase B1；LKB 1；NY REN 19 antigen；Peutz Jeghers syndrome；PJS；Polarization related protein LKB1；Serine／threonine protein kinase STK11；Serine／threonine－protein kinase XEEK1；STK 11. |
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| Organism Species： | Rabbit |
| Clonality： | Polyclonal |
| React Species： | Human，Mouse，Rat， |
| Applications： | $\begin{aligned} & \text { WB }=1: 500-2000 \mathrm{ELISA}=1: 500-1000 \mathrm{IHC}-\mathrm{P}=1: 400-800 \mathrm{IHC}-\mathrm{F}=1: 400-800 \mathrm{IF}=1: 100- \\ & 500 \text { (Paraffin sections need antigen repair) } \\ & \text { not yet tested in other applications. } \\ & \text { optimal dilutions/concentrations should be determined by the end user. } \end{aligned}$ |
| Molecular weight： | 48 kDa |
| Cellular localization： | The nucleuscytoplasmicThe cell membrane |
| Form： | Lyophilized or Liquid |
| Concentration： | $1 \mathrm{mg} / \mathrm{ml}$ |
| immunogen： | KLH conjugated Synthesised phosphopeptide derived from human LKB1 around the phosphorylation site of Ser334：WR（p－S）MT |
| Lsotype： | IgG |
| Purification： | affinity purified by Protein A |
| Storage Buffer： | 0．01M TBS（pH7．4）with 1\％BSA， $0.03 \%$ Proclin300 and 50\％Glycerol． |
| Storage： | Store at $-20^{\circ} \mathrm{C}$ for one year．Avoid repeated freeze／thaw cycles．The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at $-20^{\circ} \mathrm{C}$ ．When reconstituted in sterile pH 7.40 .01 M PBS or diluent of antibody the antibody is stable for at least two weeks at $2-4^{\circ} \mathrm{C}$ ． |



## Tissue Specificity:

Ubiquitously expressed. Strongest expression in testis and fetal liver.

Post-translational modifications:
Phosphorylated by ATM at Thr-363 following ionizing radiations (IR). Phosphorylation at Ser-428 by RPS6KA1 and/or some PKA is required to inhibit cell growth.
Phosphorylation at Ser-428 is also required during neuronal polarization to mediate phosphorylation of BRSK1 and BRSK2.

DISEASE:
Defects in STK11 are a cause of Peutz-Jeghers syndrome (PJS) [MIM:175200]. PJS is a rare hereditary disease in which there is predisposition to benign and malignant tumors of many organ systems. PJS is an autosomal dominant disorder characterized by melanocytic macules of the lips, multiple gastrointestinal hamartomatous polyps and an increased risk for various neoplasms, including gastrointestinal cancer.

Defects in STK11 have been associated with testicular tumors (TEST) [MIM:273300]. A common solid malignancy in males. Germ cell tumors of the testis constitute $95 \%$ of all testicular neoplasms.

Note=Defects in STK11 are associated with some sporadic cancers, especially lung cancers. Frequently mutated and inactivated in non-small cell lung cancer (NSCLC). Defects promote lung cancerigenesis process, especially lung cancer progression and metastasis. Confers lung adenocarcinoma the ability to trans-differentiate into squamous cell carcinoma. Also able to promotes lung cancer metastasis, via both cancer-cell autonomous and non-cancer-cell autonomous mechanisms.

Similarity:
Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. LKB1 subfamily.
Contains 1 protein kinase domain.
SWISS:
Q15831
Gene ID:
6794

Database links:
Entrez Gene: 6794Human
Entrez Gene: 20869Mouse
Omim: 602216Human
SwissProt: Q15831Human

|  | SwissProt：Q9WTK7Mouse <br> Unigene：515005Human <br> Important Note： <br> This product as supplied is intended for research use only，not for use in human， therapeutic or diagnostic applications． <br> LKB1基因是一种抑癌基因，也是一种丝氨酸／苏氨酸蛋白激酶．LKB1的功能主要是使细胞周期阻滞在G1期，促进Apoptosis和调节胚胎血管形成等．LKB1基因的胚系突变是Peutz－ <br> Jeghers综合征的主要致病因素。在散发Tumour中也发现有LKB1基因突变，其中以肺腺癌和子宫颈粘液癌突变率较高。 |
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| Picture： | Paraformaldehyde－fixed，paraffin embedded（Rat testis）；Antigen retrieval by boiling in sodium citrate buffer（ pH 6.0 ）for 15 min ；Block endogenous peroxidase by $3 \%$ hydrogen peroxide for 20 minutes；Blocking buffer（normal goat serum）at $37^{\circ} \mathrm{C}$ for 30min；Antibody incubation with（phospho－LKB1（Ser334））Polyclonal Antibody， Unconjugated（SL3248R）at 1：400 overnight at $4^{\circ} \mathrm{C}$ ，followed by operating according to SP Kit（Rabbit）（sp－0023）instructionsand DAB staining． |

Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling
in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by $3 \%$

