

# LKB1 (PT0574R) PT™ Rabbit mAb

CatalogNo: YM8389 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IF, IP, ELISA

### MW

- 49kD (Calculated)
- 60kD (Observed)

### Isotype

- IgG, Kappa

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Recommended Dilution Ratios

**WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

## Basic Information

**Clonality** Monoclonal**Clone Number** PT0574R

## Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** STK11

**Protein Name** Serine/threonine-protein kinase STK11

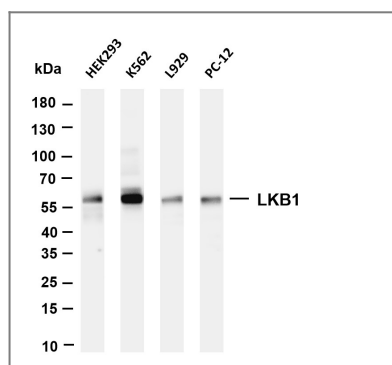
Organism	Gene ID	UniProt ID
Human	<a href="#">6794</a> ;	<a href="#">Q15831</a> ;
Mouse	<a href="#">20869</a> ;	<a href="#">Q9WTK7</a> ;

**Cellular Localization** Cytoplasm, Nucleus

**Tissue specificity** Ubiquitously expressed. Strongest expression in testis and fetal liver.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium or manganese.,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.,Disease:Defects in STK11 have been associated with testicular tumors [MIM:273300]. It includes germ cell tumor (GCT) or testicular germ cell tumor (TGCT).,enzyme regulation:Activated by binding of a complex consisting of CAB39 and STRAD or CAB39 and ALS2CR2.,Function:Essential role in G1 cell cycle arrest. Phosphorylates and activates members of the AMPK-related subfamily of protein kinases. Tumor suppressor.,online information:PJS entry,PTM:Phosphorylated by a cAMP-dependent protein kinase.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. LKB1 subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Relocates to the cytoplasm when bound to CAB39 and STRAD or CAB39 and ALS2CR2.,subunit:Found in a ternary complex composed of SMAD4, STK11 and STK11IP. Interacts with SMAD4 and STK11IP.,tissue specificity:Ubiquitously expressed. Strongest expression in testis and fetal liver.,

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-LKB1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: K562 Lane 3: L929 Lane 4: PC-12 Predicted band size: 49kDa Observed band size: 60kDa

## | Contact information

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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**LKB1 (PT0574R)**  
**PT™ Rabbit mAb**

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