Best Tools for immunology Research

# LKB1 (phospho Thr189) Polyclonal Antibody

| | |
|---|---|
| **Catalog No :** | YP0328 |
| **Reactivity :** | Human;Mouse |
| **Applications :** | WB;ELISA |
| **Target :** | LKB1 |
| **Fields :** | >>FoxO signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Tight junction;>>Adipocytokine signaling pathway |
| **Gene Name :** | STK11 |
| **Protein Name :** | Serine/threonine-protein kinase STK11 |
| **Human Gene Id :** | 6794 |
| **Human Swiss Prot No :** | Q15831 |
| **Mouse Gene Id :** | 20869 |
| **Mouse Swiss Prot No :** | Q9WTK7 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human LKB1 around the phosphorylation site of Thr189. AA range:155-204 |
| **Specificity :** | Phospho-LKB1 (T189) Polyclonal Antibody detects endogenous levels of LKB1 protein only when phosphorylated at T189. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications. |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

| | |
|---|---|
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Observed Band :** | 65kD |
| **Cell Pathway :** | Insulin Receptor; mTOR; AMPK |
| **Background :** | This gene, which encodes a member of the serine/threonine kinase family, regulates cell polarity and functions as a tumor suppressor. Mutations in this gene have been associated with Peutz-Jeghers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gastrointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008], |
| **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 ki |
| **Subcellular Location :** | Nucleus. Cytoplasm. Membrane . Mitochondrion. A small fraction localizes at membranes (By similarity). Relocates to the cytoplasm when bound to STRAD (STRADA or STRADB) and CAB39/MO25 (CAB39/MO25alpha or CAB39L/MO25beta). Translocates to the mitochondrion during apoptosis. PTEN promotes cytoplasmic localization. .; [Isoform 2]: Nucleus . Cytoplasm . Predominantly nuclear, but translocates to the cytoplasm in response to metformin or peroxynitrite treatment. |
| **Expression :** | Ubiquitously expressed. Strongest expression in testis and fetal liver. |
| **Tag :** | orthogonal |
| **Sort :** | 1806 |
| **No2 :** | 3054S |

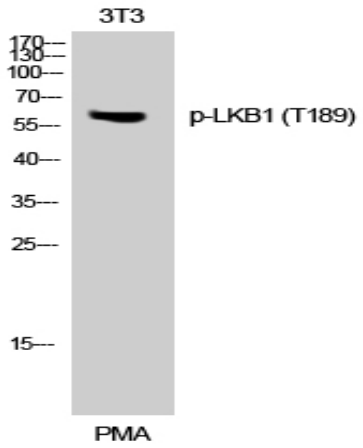
Best Tools for immunology Research

**No4 :** 1

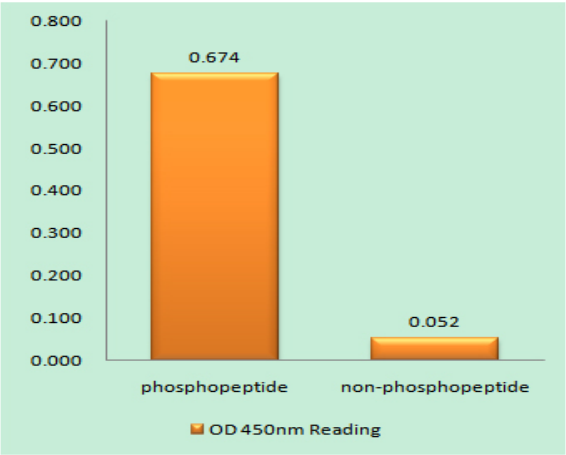
**Host :** Rabbit

**Modifications :** Phospho

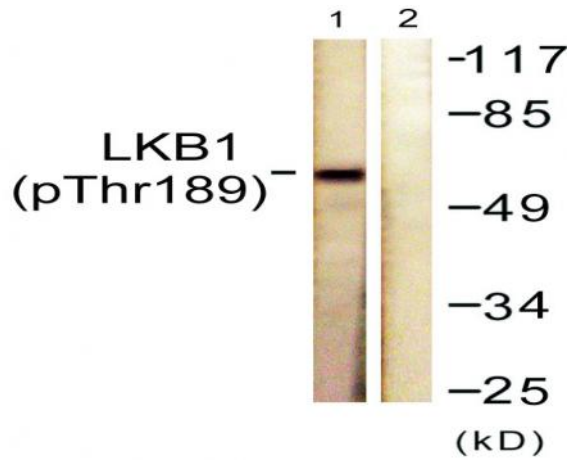
## Products Images




Western Blot analysis of 3T3 cells using Phospho-LKB1 (T189) Polyclonal Antibody




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using LKB1 (Phospho-Thr189) Antibody




Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30', using LKB1 (Phospho-Thr189) Antibody. The lane on the right is blocked with the phospho peptide.