

**Datasheet for 600-401-CL4****LKB1 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-LKB1 (RABBIT) Antibody - 600-401-CL4 |
| <b>Item No.:</b>     | 600-401-CL4                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, WB                                 |
| <b>Reactivity:</b>   | Human, Mouse                              |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Background:</b>   | The LKB1 serine/threonine protein kinase was initially identified as a tumor suppressor gene mutated in human Peutz-Jeghers syndrome (PJS), a condition resulting in the growth of numerous intestinal polyps classed as hamartomas. LKB1 exists as a heterotrimeric complex with two other proteins, Ste20-related adaptor protein (STRAD) and MO25. Together, this complex can phosphorylate and activate the AMP-activate protein kinase (AMPK). Following AMPK activation by LKB1, AMPK then phosphorylates TSC1 and TSC2, key components of the metabolism-regulating TOR signaling pathway, which antagonizes the activation for the TOR pathway. LKB1 has also been shown to play a fundamental role in controlling the spatial orientation of structures required to maintain an ordered, polarized epithelium. |
| <b>Synonyms:</b>     | LKB1 Antibody, PJS, LKB1, hLKB1, PJS, Liver kinase B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

|                        |                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | STK11                                                                                                                                                                     |
| <b>Reactivity:</b>     | Human, Mouse                                                                                                                                                              |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                        |
| <b>Immunogen:</b>      | Anti-LKB1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the C-terminus of human LKB1. |

**Purity/Specificity:** Anti-LKB1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with LKB1 from other sources has not been determined.

**Relevant Links:**

- [UniProtKB - Q15831](#)
- [GeneID - 6794](#)
- [NCBI - AAH19334](#)

## Application Details

**Tested Applications:** ELISA, WB

**Application Note:** Anti-LKB1 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 49 kDa in Western Blots of specific cell lysates and tissues.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000

**WB:** 1 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 mg/ml by UV absorbance at 280 nm

**Buffer:** 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

**Stabilizer:** None

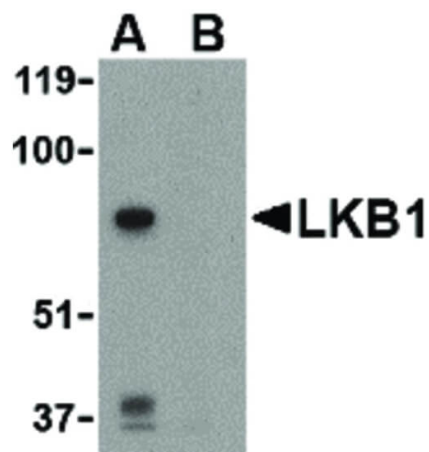
## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western Blot of LKB1 antibody in PC-3 cell lysate. Lane A: LKB1 antibody in the absence of blocking peptide. Lane B: LKB1 antibody in the presence of blocking peptide. Load: 35 µg per lane. Primary antibody: LKB1 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 49 kDa, 70 kDa for LKB1. Other band(s): LKB1 splice variants and isoforms.

## Disclaimer

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