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## **LKB1 Antibody**

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 253674

**Unit:** 0.1 mg

### **Description:**

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. LKB1 often migrates at a higher than expected molecular weight in SDS-PAGE.

**Isotype:** Rabbit Ig

**Applications:** E, WB

**Species Reactivity:** H, M

**Format:** Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

**Alternate Names:** LKB1; Serine-threonine protein kinase 11; STK11; NT-REN-19 antigen

**Accession No.:** AAH19334

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within human LKB1.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.