



## STK11 Polyclonal Antibody

E92122

**Catalog Number:** E92122**Amount:** 100ul

**Background:** LKB1 (STK11) is a serine/threonine kinase and tumor suppressor that helps control cell structure, apoptosis and energy homeostasis through regulation of numerous downstream kinases (1,2). A cytosolic protein complex comprised of LKB1, putative kinase STRAD, and the MO25 scaffold protein, activates both AMP-activated protein kinase (AMPK) and several AMPK-related kinases (3). AMPK plays a predominant role as the master regulator of cellular energy homeostasis, controlling downstream effectors that regulate cell growth and apoptosis in response to cellular ATP concentrations (4). LKB1 appears to be phosphorylated in cells at several sites, including human LKB1 at Ser31/325/428 and Thr189/336/363 (5). Mutation in the corresponding LKB1 gene causes Peutz-Jeghers syndrome (PJS), an autosomal dominant disorder characterized by benign GI tract polyps and dark skin lesions of the mouth, hands and feet (6). A variety of other LKB1 gene mutations have been associated with the formation of sporadic cancers in several tissues (7).

**Species:** Rabbit**Isotype:** IgG

**Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonyms:** LKB1; PJS;**Immunogen:** Recombinant protein of human STK11**Purification:** Affinity purification**Reactivity:** H M R**Applications:** WB IHC**Molecular Weight:** 49kDa**Swiss-Prot No.:** Q15831**Gene ID:** 6794

**References:** 1. Baas, A.F. et al. (2004) Trends Cell Biol 14, 312-9. 2. Marignani, P.A. (2005) J Clin Pathol 58, 15-9. 3. Lizcano, J.M. et al. (2004) EMBO J 23, 833-43. 4. Hardie, D.G. (2004) J Cell Sci 117, 5479-87. 5. Sapkota, G.P. et al. (2002) Biochem J 362, 481-90. 6. Jenne, D.E. et al. (1998) Nat Genet 18, 38-43. 7. Sanchez-Cespedes, M. (2007) Oncogene 26, 7825-32.

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