LKB1 (D60C5) Rabbit mAb



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Applications: W, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q15831	Entrez-Gene Id: 6794
Product Usage Information		Application Western Blotting Simple Western™		Dilution 1:1000 1:10 - 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		LKB1 (D60C5) Rabbit mAb detects endogenous levels of total LKB1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with an LKB1 partial fusion protein.				
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).				
1. Baas, A.F. et al. (2004) <i>Trends Cell Biol</i> 14, 312-9. 2. Marignani, P.A. (2005) <i>J Clin Pathol</i> 58, 15-9. 3. Lizcano, J.M. et al. (2004) <i>EMBO J</i> 23, 833-43. 4. Hardie, D.G. (2004) <i>J Cell Sci</i> 117, 5479-87. 5. Sapkota, G.P. et al. (2002) <i>Biochem J</i> 362, 481-90. 6. Jenne, D.E. et al. (1998) <i>Nat Genet</i> 18, 38-43. 7. Sanchez-Cespedes, M. (2007) <i>Oncogene</i> 26, 7825-32.						

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting W-S: Simple Western™

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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