Patents

LKB1 (27D10) Rabbit mAb



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Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q15831	Entrez-Gene Id: 6794	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensi	tivity LKB	LKB1 (27D10) Rabbit mAb detects endogenous levels of LKB1 protein.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human LKB1.					
Background	apo prot both prec that pho Muta diso varie	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).					
Background Refer	2. M 3. Li 4. H 5. S	 Baas, A.F. et al. (2004) Trends Cell Biol 14, 312-9. Marignani, P.A. (2005) J Clin Pathol 58, 15-9. Lizcano, J.M. et al. (2004) EMBO J 23, 833-43. Hardie, D.G. (2004) J Cell Sci 117, 5479-87. Sapkota, G.P. et al. (2002) Biochem J 362, 481-90. Jenne, D.E. et al. (1998) Nat Genet 18, 38-43. 					

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

7. Sanchez-Cespedes, M. (2007) *Oncogene* 26, 7825-32.

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

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

Applications Key WB: Western Blotting IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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