Store at -200

Phospho-LKB1 (Ser334) Antibody



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Applications: WB	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 54	Source: Rabbit	UniProt ID: #Q15831	Entrez-Gene Id 6794	
Product Usage Information	•	plication estern Blotting		Dilution 1:1000			
Storage	Sup	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensi			,	transfected levels of LKB1 only when phosphorylated at serine th LKB1 phosphorylated at other sites.			
Species predicted react based on 10 sequence homolo	0%	use					

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser334 of human LKB1. Antibodies are purified by protein A and peptide affinity chromatography.

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).

Background 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.

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

WB: Western Blotting

Cross-Reactivity Key

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

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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Trademarks and Patents

Limited Uses

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