ILK1 Antibody



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Applications: W	Reactivity: H M R Mk B	Sensitivity: Endogenous	MW (kDa): 51	Source/Isotype: Rabbit	UniProt ID: #Q13418	Entrez-Gene Id: 3611
Product Usage Information	•	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		ILK1 Antibody detects endogenous levels of total ILK1 protein. The antibody may cross-react with ILK2.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminus of human ILK1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Integrin-linked kinases (ILKs) couple integrins and growth factors to downstream pathways involved in cell survival, cell cycle control, cell-cell adhesion and cell motility (1). ILK functions as a scaffold bridging the extracellular matrix (ECM) and growth factor receptors to the actin cytoskeleton through interactions with integrin, PINCH (which links ILK to the RTKs via Nck2), CH-ILKBP and affixin (1). ILK phosphorylates Akt at Ser473, GSK-3 on Ser9, myosin light chain 2 (MLC2) on Ser18/Thr19, as well as affixin (2-5). These phosphorylation events are key regulatory steps in modulating the activities of the targets. ILK activity is stimulated by PI3 kinase and negatively regulated by the tumor suppressor PTEN and a PP2C protein phosphatase, ILKAP (1,3,6). It has been suggested that the conserved Ser343 residue in the activation loop plays a key role in the activation of ILK1 (2).				
Background References		1. Wu, C. and Dedhar, S. (2000) <i>J. Biol. Chem.</i> 155, 505-510. 2. Persad, S. et al. (2001) <i>J. Biol. Chem.</i> 276, 27462-27469. 3. Persad, S. et al. (2000) <i>J. Cell Biol.</i> 153, 1161-1173. 4. Deng, J.T. et al. (2001) <i>J. Biol. Chem.</i> 276, 16365-16373. 5. Yamaji, S. et al. (2001) <i>J. Cell Biol.</i> 153, 1251-1264. 6. Morimoto, A.M. et al. (2000) <i>Oncogene</i> 19, 200-209.				
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

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey B: Bovine

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