DLK1 Antibody Signaling DIK1 Antibody Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com Strask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 41	Source/Isotype: Rabbit	UniProt ID: #P80370	Entrez-Gene Id: 8788
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		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/Sensitivity		DLK1 Antibody detects transfected levels of total DLK1 protein.				
Species predict based on 100% homology	ted to react sequence	Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a residues surrounding Met371 of human DLK1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Delta-like-1 (DLK1), also known as fetal antigen 1 (FA1) and preadipocyte factor 1 (pref-1), is a member of the epidermal growth factor (EGF)-like family of proteins, containing six tandem EGF-like repeats (1,2). DLK1 is a paternally expressed, imprinted gene that plays an important role in normal development and in the maintenance of homeostasis of adipose tissue mass (3). DLK1-deficient mice display growth retardation, obesity, skeletal malformation, and increased serum lipid metabolites (4). It has been reported that the ectodomain of DLK1 is shredded from the cell surface and inhibits adipocyte differentiation (5-7).				
Background References		1. Laborda, J. et al. (1993) <i>J Biol Chem</i> 268, 3817-20. 2. Smas, C.M. and Sul, H.S. (1993) <i>Cell</i> 73, 725-34. 3. Kobayashi, S. et al. (2000) <i>Genes Cells</i> 5, 1029-37. 4. Moon, Y.S. et al. (2002) <i>Mol Cell Biol</i> 22, 5585-92. 5. Smas, C.M. et al. (1997) <i>Mol Cell Biol</i> 17, 977-88. 6. Mei, B. et al. (2002) <i>Biochem J</i> 364, 137-44. 7. Wang, Y. et al. (2006) <i>J Nutr</i> 136, 2953-6.				
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	d 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 IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse				
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