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PTP1B Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #P18031	Entrez-Gene Id: 5770
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		PTP1B Antibody detects endogenous levels of total PTP1B protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PTP1B protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Protein-tyrosine phosphatase 1B (PTP1B) is the original member of the protein tyrosine phosphatase (PTP) family of proteins (1). PTP1B is highly expressed in insulin-responsive tissues and negatively regulates insulin, as well as integrin, through dephosphorylation of phosphotyrosine residues (2-4). PTP1B knockout mice show resistance to dietary weight gain and enhanced insulin sensitivity, suggesting a possible role in treatment of obesity as well as type 2 diabetes (5).				
Background References		1. Liang, F. et al. (200! 2. Kenner, K.A. et al. (3. Klaman, L.D. et al. (4. Liu, F. et al. (1998) 5. Elchebly, M. et al. (1996) J Biol Chem 27 (2000) Mol Cell Biol (Curr Biol 8, 173-6.	71, 19810-6. 20, 5479-89.		
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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				
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