

Phospho-Threonine Antibody (P-Thr-Polyclonal) (HRP Conjugate)

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:	Reactivity:	Sensitivity:	Source/Isotype:
W, E-P	All	Endogenous	Mouse
Product Usage Information	Application	Dilution	
	Western Blotting	1:1000	
	Peptide ELISA (DELFI A)	1:2000	
Storage	Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>		
Specificity/Sensitivity	Phospho-Threonine Antibody (P-Thr-Polyclonal) (HRP Conjugate) detects proteins and peptides phosphorylated at threonine residues in a manner largely independent of the surrounding amino acid sequence. The antibody is phospho-specific and may cross-react with some phospho-serine-containing sequences. By ELISA, it recognizes a wide variety of threonine-phosphorylated peptides, and by 2D gel western blot analysis, it recognizes a large number of presumably threonine-phosphorylated proteins. We recommend the use of Phospho-Threonine-Proline Mouse mAb (P-Thr-Pro-101) #9391 to detect proteins containing threonine followed by proline. (U.S. Patent No's.: 6,441,140; 6,982,318; 7,259,022; 7,344,714; U.S.S.N. 11,484,485; and all foreign equivalents.)		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with synthetic phospho-Thr-containing peptides. Antibodies are purified by protein A and peptide affinity chromatography.		
Description	This Cell Signaling Technology® antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Threonine Antibody (P-Thr-Polyclonal) #9381.		
Background	Much of the dynamic behavior of cellular proteins, including the regulation of molecular interactions (1), subcellular localization (2), and transcriptional regulation (3) is controlled by a variety of post-translational modifications (4). Antibodies specific for these post-translational modifications are invaluable tools in the quest to understand normal and pathogenic molecular and cellular behavior. General protein modification antibodies are designed to react with modified amino acid residues (e.g. phospho-threonine, phospho-tyrosine, acetyl-lysine, nitro-tyrosine) independently of the sequence in which they are embedded. This ability to recognize modified residues in a "context-independent" fashion gives these antibodies broad reactivities, presumably conferring upon them the ability to react with hundreds of distinct proteins. This broad pattern of reactivity makes these antibodies especially valuable in multiplex analyses and target discovery programs.		
Background References	<ol style="list-style-type: none"> 1. Yaffe, M.B. and Elia, A.E. (2001) <i>Curr Opin Cell Biol</i> 13, 131-8. 2. Appella, E. and Anderson, C.W. (2001) <i>Eur J Biochem</i> 268, 2764-72. 3. Jenuwein, T. and Allis, C.D. (2001) <i>Science</i> 293, 1074-80. 4. Krishna, R.G. and Wold, F. (1993) <i>Adv Enzymol Relat Areas Mol Biol</i> 67, 265-98. 		
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 E-P: Peptide ELISA (DELFI A)		
Cross-Reactivity Key	All: All Species Expected		
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