1/1/24, 11:06 AM Revision 1

Revision 1						
Phospho-Threonine/Tyrosine Antibody						ell Signaling ECHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com
					Support:	877-678-TECH (8324)
#9381					Web:	info@cellsignal.com cellsignal.com
#				3 Trask Lan	e Danvers N	Assachusetts 01923 USA
For Research Use Only. No	t for Use in I	Diagnostic Proced	lures.			
Applications: R WB, IP, E-P	eactivity: All	Sensitivity: Endogenous	Source: Rabbit			
Product Usage Information	App	lication			Di	lution
		stern Blotting		1:1000		
	Imm	unoprecipitation			1:50	
	Pep	tide ELISA (DELFIA)			1:	2000
Storage		lied in 10 mM sodiur . Do not aliquot the a		L50 mM NaCl, 100 μg	/ml BSA and 5	0% glycerol. Store at –
Specificity / Sensitivi	tyrosi is pho ELIS CST conta	Phospho-Threonine/Tyrosine Antibody detects proteins and peptides phosphorylated at threonine and tyrosine residues in a manner largely independent of the surrounding amino acid sequence. The antibody is phospho-specific and may cross-react slightly with some phospho-serine-containing sequences. By ELISA, it recognizes a wide variety of threonine-phosphorylated and tyrosine-phosphorylated peptides. CST recommends the use of Phospho-Threonine-Proline 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 affinity chromatography.				
Background	subce modi quess Gene phos these distin analy Prote gene biolog Polyce targe	ellular localization (2 fications (4). Antibod t to understand norm eral protein modificat pho-threonine, phosp are embedded. This e antibodies broad re ct proteins. This broad reses and target disco sin kinases are amon s are encoded in ma gy, relatively few of the clonal) #9381 and Pho- ts of serine/threoning	), and transcriptional ies specific for these al and pathogenic m ion antibodies are de oho-tyrosine, acetyl-l ability to recognize r activities, presumabl ad pattern of reactivi very programs. g the most abundan mmalian genomes ( neir physiological tar ospho-Threonine (4: e kinases, for monito	post-translational mo nolecular and cellular l esigned to react with n lysine, nitro-tyrosine) i nodified residues in a ly conferring upon the ty makes these antibo	rolled by a vari difications are behavior. nodified amino ndependently "context-indep m the ability to dies especially / proteins; ove portance of kin pho-Threonine ride powerful to g in vitro threo	ety of post-translational invaluable tools in the acid residues (e.g. of the sequence in which bendent" fashion gives react with hundreds of y valuable in multiplex r 500 separate kinase bases in eukaryotic e Antibody (P-Thr- bols for discovering
Background Referen	2. Ap 3. Jei 4. Kri 5. Ve	nuwein, T. and Allis,	on, C.W. (2001) <i>Eur</i> C.D. (2001) <i>Science</i> I, F. (1993) <i>Adv Enz</i> y .) <i>Science</i> 291, 1304	J Biochem 268, 2764 293, 1074-80. ymol Relat Areas Mol I-51.		8.
Species Reactivity	Specie	es reactivity is deterr	nined by testing in at	t least one approved a	application (e.g	., western blot).
Western Blot BufferIMPORTANT: For western blots, incubate membrane with 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				mary antibody	in 5% w/v BSA, 1X TBS,	
Applications Key	WB:	Western Blotting IP:	Immunoprecipitation	<b>E-P:</b> Peptide ELISA	(DELFIA)	

1/1/24, 11:06 AM Cross-Reactivity Key	<ul> <li>Phospho-Threonine/Tyrosine Antibody (#9381) Datasheet Without Images Cell Signaling Technolog</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>	
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