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#2981

Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W, IP, E-P	All	Endogenous	Rabbit
Product Usage Information	Application		Dilution
	Western Blotting		1:1000
	Immunoprecipitation		1:50
	Peptide ELISA (DELFI A)		1:1000
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	Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody detects endogenous levels of proteins containing the Arg-X-Tyr/Phe-X-pSer motif. This antibody does not cross-react with nonphosphorylated serine or phospho-threonine proteins with the same motif or other phospho-serine/threonine-containing proteins and peptides without this motif.		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with Arg-X-Tyr/Phe-X-pSer-containing peptides. Antibodies are purified by protein A and peptide affinity chromatography.		
Background	The 14-3-3 proteins are a highly conserved family of proteins involved in the regulation of cell survival, apoptosis, proliferation and checkpoint control (1-5). Binding of 14-3-3 is mediated through phospho-serine-containing proteins (6). Two different phospho-serine containing motifs are found using a degenerate phospho-serine-oriented peptide library technique, RSXS*XP and RXY/FXS*XP (6). Motif 2 (RXY/FXS*XP) is found in critical regulatory proteins including cdc25A, cdc25B, PKCgamma, IRS-1 and BCR (6). Although Phospho-(Ser) Arg-X-Tyr/Phe-X-pSer Motif Antibody binds 14-3-3 binding motif 2 with no requirement for proline in the +2 position, it provides a powerful tool for the discovery and characterization of potential 14-3-3 binding motif 2-containing proteins or other proteins with the RXY/FXS* motif.		
Background References	<ol style="list-style-type: none"> 1. Aitken, A. (1995) <i>Trends Biochem Sci</i> 20, 95-7. 2. Zha, J. et al. (1996) <i>Cell</i> 87, 619-28. 3. Piwnica-Worms, H. (1999) <i>Nature</i> 401, 535, 537. 4. Tzivion, G. et al. (1998) <i>Nature</i> 394, 88-92. 5. Xing, H. et al. (2000) <i>EMBO J</i> 19, 349-58. 6. Yaffe, M.B. et al. (1997) <i>Cell</i> 91, 961-71. 		

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 IP: Immunoprecipitation E-P: Peptide ELISA (DELFI A)
Cross-Reactivity Key	All: All Species Expected
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