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



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Applications: I WB, IP, E-P	Reactivity: All	Sensitivity: Endogenous	Source: Rabbit		
Product Usage Information	Application			Dilution	
	W	estern Blotting		1:1000	
	Im	munoprecipitation		1:50	
	Pe	eptide ELISA (DELFIA	)	1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.			
Specificity / Sensitiv	Arg pho	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	apo ser deç (R) BC no cha	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 phosphoserine-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 Referen	.000	<ol> <li>Aitken, A. (1995) Trends Biochem Sci 20, 95-7.</li> <li>Zha, J. et al. (1996) Cell 87, 619-28.</li> </ol>			

- 3. Piwnica-Worms, H. (1999) Nature 401, 535, 537.
- 4. Tzivion, G. et al. (1998) Nature 394, 88-92.
- 5. Xing, H. et al. (2000) EMBO J 19, 349-58.
- 6. Yaffe, M.B. et al. (1997) Cell 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** WB: Western Blotting IP: Immunoprecipitation E-P: Peptide ELISA (DELFIA)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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