## Phospho-PPIG (Ser376) Antibody





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Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q13427	Entrez-Gene Id: 9360			
Product Usage Information		Application Western Blotting		Dilution 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-PPIG (Ser376) Antibody detects endogenous levels of PPIG protein only when phosphorylated at Ser376.							
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser376 of human PPIG. Antibodies are purified by peptide affinity chromatography.							
Background	PPIG belongs to a highly conserved class of cyclophilins that function as peptidyl-prolyl-isomerase (PPIases) to catalyze the conversion of cis-proline to trans-proline in a polypeptide chain (1-4). PPIG contains an amino-terminal cyclophilin domain followed by Nopp140 repeats that are involved in i function as a nuclear chaperone (5). The carboxy-terminal of PPIG contains a SR (arginine-serine dipeptide repeat) domain (3,4) that is involved in pre-mRNA splicing and processing (6). PPIG inter with the carboxy-terminal domain of RNA polymerase II as well as several other SR family splicing factors. These interactions lead to changes in localization and conformation and suggest a regulat role in transcription and pre-mRNA splicing in the elongating RNA polymerase complex (7,8). PPIG found in the nuclear matrix and nuclear speckles and is involved in the regulation of gene express PPIG shows a predominantly diffuse cytoplasmic distribution at the onset of mitosis, and in late telophase the isomerase is recruited to the newly formed nuclei (9). Phosphorylation of Ser376 on PPIG was identified as a consensus site fit for ACG kinase at Cell Signaling Technology (CST) using PhosphoScan <sup>®</sup> , a CST's LC-MS/MS platform for phosphorylation s discovery (10).					nain (1-4). PPIG e involved in its inine-serine (6). PPIG interacts amily splicing gest a regulatory lex (7,8). PPIG is gene expression. and in late ase at Cell			
Background R	eferences	2. Freskgård, P.O. et al 3. Nestel, F.P. et al. (19 4. Mortillaro, M.J. and 5. Meier, U.T. and Blob 6. Zahler, A.M. et al. (1 7. Lin, C.L. et al. (2004) 8. Bourquin, J.P. et al. (2 9. Dubourg, B. et al. (2	t al. (1989) <i>Nature</i> 337, 476-8. 20. et al. (1992) <i>Science</i> 258, 466-8. et al. (1996) <i>Gene</i> 180, 151-5. M.J. and Berezney, R. (1998) <i>J Biol Chem</i> 273, 8183-92. ind Blobel, G. (1992) <i>Cell</i> 70, 127-38. et al. (1993) <i>Science</i> 260, 219-22. il. (2004) <i>Biochem Biophys Res Commun</i> 321, 638-47. P. et al. (1997) <i>Nucleic Acids Res</i> 25, 2055-61. . et al. (2004) <i>J Biol Chem</i> 279, 22322-30. al. (2005) <i>Nat Biotechnol</i> 23, 94-101.						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).			
Western Blot E		western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X ® 20 at 4°C with gentle shaking, overnight.							
Applications K	Applications Key W: Western Blotting								
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey							
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