

£3803

PPIG Antibody



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:	MW (kDa):	Source/Isotype: Rabbit	UniProt ID:	Entrez-Gene Id:
Product Usage Information	H M R	Endogenous Application Western Blotting	110	Rabbit	#Q13427 Dilution 1:1000	9360
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		PPIG Antibody detects endogenous levels of total PPIG protein. This antibody also recognizes a unidentified protein at 49 kDa.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu391 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-isomerases (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 its 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 interacts 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 regulatory role in transcription and pre-mRNA splicing in the elongating RNA polymerase complex (7,8). PPIG is found in the nuclear matrix and nuclear speckles and is involved in the regulation of gene expression. 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).				
Background References		 Fischer, G. et al. (1989) Nature 337, 476-8. Freskgård, P.O. et al. (1992) Science 258, 466-8. Nestel, F.P. et al. (1996) Gene 180, 151-5. Mortillaro, M.J. and Berezney, R. (1998) J Biol Chem 273, 8183-92. Meier, U.T. and Blobel, G. (1992) Cell 70, 127-38. Zahler, A.M. et al. (1993) Science 260, 219-22. Lin, C.L. et al. (2004) Biochem Biophys Res Commun 321, 638-47. Bourquin, J.P. et al. (1997) Nucleic Acids Res 25, 2055-61. Dubourg, B. et al. (2004) J Biol Chem 279, 22322-30. 				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

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

Cross-Reactivity Key H: Human M: Mouse R: Rat

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