TFII-I Antibody



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Applications: W, IP, IHC-P	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 135, 138	Source/Isotype: Rabbit	UniProt ID: #P78347	Entrez-Gene Id: 2969	
Product Usage Information	•	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)		Dilution 1:1000 1:50 1:200 - 1:800			
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/Ser	sitivity	TFII-I Antibody detects endogenous levels of total TFII-I (all isoforms).					
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human TFII-I. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		TFII-I (also known as SPIN and BAP-135) is a multifunctional transcription factor that facilitates basal transcriptional machinery assembly at the core promotor region, as well as the assembly of the transcriptional activator complex at upstream regulatory sites (1). Four isoforms of TFII-I (alpha, beta, gamma, and delta) form homo- or heteromeric complexes, which may perform different functions on different promoters (1). In B cells, cross-linking of BCR (B cell receptors) leads to TFII-I phosphorylation at Tyr248 by Btk (2). This phosphorylation disrupts the association of Btk and TFII-I and enhances TFII-I transcriptional activity and nuclear localization (2). In nonlymphoid cells, TFII-I is phosphorylated at Tyr248 by Src dependent kinase or JAK2 (3,4). PKG (cGMP-dependent kinase) interacts with and phosphorylates TFII-I at Ser371 and 743, which also promotes TFII-I transcription activity (5). TFII-I activity is also modulated by HDAC3 (Histone Deacetylase 3) through a physical interaction between the two proteins (6).					
Background R	eferences	1. Roy, A.L. (2001) <i>Gene</i> 274, 1-13. 2. Novina, C. D. et al. (1999) <i>Mol. Cell. Biol.</i> 19, 5014-5024. 3. Kim, D. and Cochran, B.H. (2001) <i>Mol. Cell. Biol.</i> 21, 3387-3397. 4. Cheriyath, V. et al. (2002) <i>J. Biol. Chem.</i> 277, 22798-22805. 5. Casteel, D. E. et al. (2002) <i>J. Biol. Chem.</i> 277, 32003-32014. 6. Wen, Y. et al. (2003) <i>J. Biol. Chem.</i> 278, 1841-1847.					
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivi	ty Key	H: Human M: Mouse Mk: Monkey					
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