#4562 Store at -20C

TFII-I Antibody



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Applications: WB, IP, IHC-P	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 135, 138	Source: Rabbit	UniProt ID: #P78347	Entrez-Gene ld: 2969	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
	Imr	nunohistochemistry	(Paraffin)	1:200 - 1:800			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensit	tivity TFII	TFII-I Antibody detects endogenous levels of total TFII-I (all isoforms).					
Source / Purification		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	tran: tran: gam diffe Tyr2 tran: by S TFII	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 Refer	2. N 3. Ki 4. C 5. C	 Roy, A.L. (2001) <i>Gene</i> 274, 1-13. Novina, C. D. et al. (1999) <i>Mol. Cell. Biol.</i> 19, 5014-5024. Kim, D. and Cochran, B.H. (2001) <i>Mol. Cell. Biol.</i> 21, 3387-3397. Cheriyath, V. et al. (2002) <i>J. Biol. Chem.</i> 277, 22798-22805. Casteel, D. E. et al. (2002) <i>J. Biol. Chem.</i> 277, 32003-32014. Wen, Y. et al. (2003) <i>J. Biol. Chem.</i> 278, 1841-1847. 					

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 IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

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

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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TFII-I Antibody (#4562) Datasheet Without Images Cell Signaling Technology

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