

#8080 Store at -20C

## TFIIF- $\alpha$ Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> WB, IP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 74	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P35269	<b>Entrez-Gene Id:</b> 2962
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	TFIIF- $\alpha$ Antibody recognizes endogenous levels of total TFIIF- $\alpha$ protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Dog	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human TFIIF- $\alpha$ protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	TFIIF is a member of the group of general transcription factors that facilitate the binding of RNA polymerase II (Pol II) to promoter sequences as part of the pre-initiation complex (PIC) (1). TFIIF consists of subunits TFIIF- $\alpha$ (RAP74) and TFIIF- $\beta$ (RAP30). It is involved in the stabilization of Pol II association with the PIC and selection of the transcription start site during transcription initiation (1,2). In addition to its role in transcription initiation, TFIIF has been shown to stimulate the transcription elongation activity of Pol II as well as dephosphorylation and recycling of Pol II during transcription termination (3-5).	
<b>Background References</b>	1. Thomas, M.C. and Chiang, C.M. <i>Crit Rev Biochem Mol Biol</i> 41, 105-78. 2. Hahn, S. (2004) <i>Nat Struct Mol Biol</i> 11, 394-403. 3. Sims, R.J. et al. (2004) <i>Genes Dev</i> 18, 2437-68. 4. Zhang, C. and Burton, Z.F. (2004) <i>J Mol Biol</i> 342, 1085-99. 5. Zewel, L. et al. (1995) <i>Genes Dev</i> 9, 1479-90.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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