

**#2637**  
Store at -20C**BTAF1 Antibody****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	200	Rabbit	#O14981	9044

<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>
	Western Blotting	1:1000
	Immunoprecipitation	1:100
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	BTAF1 Antibody recognizes endogenous levels of total BTAF1 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Hamster, Bovine, Horse	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala220 of human BTAF1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	B-TATA binding protein-associated factor 1 (BTAF1) is a human homolog of the yeast protein modifier of transcription 1 (MOT1) (1). BTAF1 negatively regulates transcription through interaction with TATA binding protein (TBP), an important component of the B-TFIID complex (2,3). BTAF1 is a member of the SNF2 family of ATPases that utilizes ATP to remove TBP from B-TFIID, thereby preventing formation of the transcription pre-initiation complex (PIC) (3-5). BTAF1 actively removes TBP from DNA, which prevents non-specific TBP-DNA interactions and promotes disassembly of inactive forms of the PIC. This activity is thought to be critical for maintaining a pool of free TBP that is necessary for the assembly of the PIC during transcription activation (6,7).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Chicca, J.J. et al. (1998) <i>Mol Cell Biol</i> 18, 1701-10.</li> <li>2. Pereira, L.A. et al. (2004) <i>J Biol Chem</i> 279, 21802-7.</li> <li>3. Auble, D.T. (2009) <i>Trends Biochem Sci</i> 34, 49-52.</li> <li>4. Auble, D.T. et al. (1994) <i>Genes Dev</i> 8, 1920-34.</li> <li>5. de Graaf, P. et al. (2010) <i>J Cell Sci</i> 123, 2663-71.</li> <li>6. Dasgupta, A. et al. (2005) <i>EMBO J</i> 24, 1717-29.</li> <li>7. Huisinga, K.L. and Pugh, B.F. (2007) <i>Genome Biol</i> 8, R46.</li> </ol>	

<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 nonfat dry milk, 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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