

#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

**Product Usage Information****Application**Western Blotting  
Immunoprecipitation**Dilution**1:1000  
1:100**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**

BTAF1 Antibody recognizes endogenous levels of total BTAF1 protein.

**Species predicted to react based on 100% sequence homology:**

Hamster, Bovine, Horse

**Source / Purification**

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.

**Background**

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).

**Background References**

1. Chicca, J.J. et al. (1998) *Mol Cell Biol* 18, 1701-10.
2. Pereira, L.A. et al. (2004) *J Biol Chem* 279, 21802-7.
3. Auble, D.T. (2009) *Trends Biochem Sci* 34, 49-52.
4. Auble, D.T. et al. (1994) *Genes Dev* 8, 1920-34.
5. de Graaf, P. et al. (2010) *J Cell Sci* 123, 2663-71.
6. Dasgupta, A. et al. (2005) *EMBO J* 24, 1717-29.
7. Huisinga, K.L. and Pugh, B.F. (2007) *Genome Biol* 8, R46.

**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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key****WB:** Western Blotting **IP:** Immunoprecipitation**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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