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Store at -20C
#2637

BTA1 Antibody

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

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

BTA1 Antibody recognizes endogenous levels of total BTA1 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 BTA1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

B-TATA binding protein-associated factor 1 (BTA1) is a human homolog of the yeast protein modifier of transcription 1 (MOT1) (1). BTA1 negatively regulates transcription through interaction with TATA binding protein (TBP), an important component of the B-TFIID complex (2,3). BTA1 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). BTA1 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

- Chicca, J.J. et al. (1998) *Mol Cell Biol* 18, 1701-10.
- Pereira, L.A. et al. (2004) *J Biol Chem* 279, 21802-7.
- Auble, D.T. (2009) *Trends Biochem Sci* 34, 49-52.
- Auble, D.T. et al. (1994) *Genes Dev* 8, 1920-34.
- de Graaf, P. et al. (2010) *J Cell Sci* 123, 2663-71.
- Dasgupta, A. et al. (2005) *EMBO J* 24, 1717-29.
- 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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