

Bdf1 (yN-15): sc-27302

BACKGROUND

The histone code hypothesis proposes that covalently modified histone tails are binding sites for specific proteins. *In vitro* evidence suggests that factors containing bromodomains read the code by binding acetylated histone tails. Bromodomain Factor 1 (Bdf1), a protein that associates with TFIID, binds histone H4 with preference for multiply acetylated forms. Recombinant Bdf1p demonstrates binding affinity for histones H4 and H3 with different degrees of acetylation, but does not bind to H2A and H2B *in vitro*. Two distinct regions within Bdf1 are phosphorylated; one is just C terminal to the bromodomains and the other is near the C terminus. Mutational analysis shows that phosphorylation is necessary for Bdf1 function *in vivo*.

REFERENCES

1. Pamblanco, M., Poveda, A., Sendra, R., Rodríguez-Navarro, S., Pérez-Ortín, J.E. and Tordera, V. 2001. Bromodomain factor 1 (Bdf1) protein interacts with histones. FEBS Lett. 496: 31-35.
2. Matangkasombut, O. and Buratowski, S. 2003. Different sensitivities of bromodomain factors 1 and 2 to histone H4 acetylation. Mol. Cell 11: 353-363.
3. Sawa, C., Nedeá, E., Krogan, N., Wada, T., Handa, H., Greenblatt, J. and Buratowski, S. 2004. Bromodomain factor 1 (Bdf1) is phosphorylated by protein kinase CK2. Mol. Cell. Biol. 24: 4734-4742.

SOURCE

Bdf1 (yN-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Bdf1 of *Saccharomyces cerevisiae* origin (Accession/GI: 5921175).

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27302 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Bdf1 (yN-15) is recommended for detection of Bdf1 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution: 1:200, dilution range: 1:100-1:1000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use bovine anti-goat IgG-HRP: sc-2350 or bovine anti-goat IgG-AP: sc-2351 (dilution range: 1:2000-1:10000), Cruz Marker™ compatible anti-goat secondary reagents: bovine anti-goat IgG-HRP: sc-2378 or bovine anti-goat IgG-AP: sc-2381 (dilution range: 1:2000-1:5000).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.