**BACKGROUND**

ATF-7IP (activating transcription factor 7-interacting protein 1, MBDB1-containing chromatin-associated factor 1) is a 1,270 amino acid protein encoded by the human gene ATF7IP. ATF-7IP can both act as an activator or a repressor depending on the context. ATF-7IP functions as a recruiter that couples transcriptional factors to general transcription apparatus and thereby modulates transcription regulation and chromatin formation. It mediates MBDB1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1. ATF-7IP is required to stimulate the histone methyltransferase activity of SETDB1 and it facilitates the conversion of dimethylated to trimethylated H3 "Lys-9". The complex formed by ATF-7IP, MBDB1 and SETDB1 also acts to couple DNA methylation to histone "Lys-9" trimethylation.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ATF7IP (human) mapping to 12p13.1; Atf7ip (mouse) mapping to 6 G1.

**SOURCE**

ATF-7IP (B-7) is a mouse monoclonal antibody raised against amino acids 1058-1161 mapping near the C-terminus of ATF-7IP of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

ATF-7IP (B-7) is recommended for detection of ATF-7IP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ATF-7IP siRNA (h): sc-96134, ATF-7IP siRNA (m): sc-141319, ATF-7IP shRNA Plasmid (h): sc-96134-SH, ATF-7IP shRNA Plasmid (m): sc-141319-SH, ATF-7IP shRNA (h) Lentiviral Particles: sc-96134-V and ATF-7IP shRNA (m) Lentiviral Particles: sc-141319-V.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BPHRP: sc-516102 or m-IgG κ BPHRP (Cruz Marker): sc-516102-CM (dilution range: 1:100-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BPTC: sc-516140 or m-IgG κ BPE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**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 for detailed protocols and support products.