BACKGROUND

TATA-binding protein (TBP) forms complexes with various nuclear proteins and is a target for various transcriptional regulators, such as TIP120. The two members of the TIP120 family of proteins, TIP120A and TIP120B, are TBP-interacting proteins that function as global activators in transcriptional regulation. TIP120A is a ubiquitously expressed protein isolated from rat liver nuclear extracts, originally named TIP120. TIP120B is a TIP-120A-like protein that is expressed specifically in muscle tissues. TIP120A binds directly to TBP and a particular subunit of RNA polymerase II to facilitate specific integration of RNAP II into the preinitiation complex (PIC). In addition to being a transcription factor of TBP, the chaperone-like activity toward the RNA polymerases demonstrates that TIP120 regulates the amplification of multiple gene expression.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: CAND2 (human) mapping to 3p25.2; Cand2 (mouse) mapping to 6 E3.

SOURCE

TIP120B (H-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 726-748 within an internal region of TIP120B of human origin.

PRODUCT

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-515406 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

TIP120B (H-7) is recommended for detection of TIP120B 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 TIP120B siRNA (h): sc-78223, TIP120B siRNA (m): sc-36682, TIP120B shRNA Plasmid (h): sc-78223-SH, TIP120B shRNA Plasmid (m): sc-36682-SH, TIP120B shRNA (h) Lentiviral Particles: sc-78223-V and TIP120B shRNA (m) Lentiviral Particles: sc-36682-V.

Molecular Weight of TIP120B: 151 kDa.

Positive Controls: BC3H1 cell lysate: sc-2299, C2C12 whole cell lysate: sc-364188 or Sol8 cell lysate: sc-2249.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:


DATA

TIP120B (H-7): sc-515406. Western blot analysis of TIP120B expression in C2C12 (A), Sol8 (B), BC3H1 (C) and A-10 (D) whole cell lysates and rat tongue tissue extract (E).

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.