

# TIP120B (H-7): sc-515406

## 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 TIP120A-like protein that is expressed specifically in muscle tissues. TIP120A binds directly to TBP and a particular subunit of RNA polymerases (RNAP) 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

1. Zawel, L., et al. 1992. Advances in RNA polymerase II transcription. *Curr. Opin. Cell Biol.* 4: 488-495.
2. Conaway, R.C., et al. 1993. General initiation factors for RNA polymerase II. *Annu. Rev. Biochem.* 62: 161-190.
3. Yogosawa, S., et al. 1996. Molecular cloning of a novel 120-kDa TBP-interacting protein. *Biochem. Biophys. Res. Commun.* 229: 612-617.

## 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 IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TIP120B (H-7) is available conjugated to agarose (sc-515406 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515406 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515406 PE), fluorescein (sc-515406 FITC), Alexa Fluor® 488 (sc-515406 AF488), Alexa Fluor® 546 (sc-515406 AF546), Alexa Fluor® 594 (sc-515406 AF594) or Alexa Fluor® 647 (sc-515406 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515406 AF680) or Alexa Fluor® 790 (sc-515406 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

## RESEARCH USE

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

## 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.

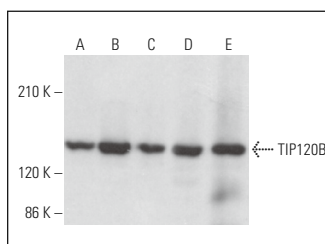
Molecular Weight of TIP120B: 151 kDa.

Positive Controls: BC<sub>3</sub>H1 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: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



TIP120B (H-7): sc-515406. Western blot analysis of TIP120B expression in C2C12 (A), Sol8 (B), BC<sub>3</sub>H1 (C) and A-10 (D) whole cell lysates and rat tongue tissue extract (E).

## SELECT PRODUCT CITATIONS

1. Górka, A.A., et al. 2021. Muscle-specific Cand2 is translationally upregulated by mTORC1 and promotes adverse cardiac remodeling. *EMBO Rep.* 22: e52170.

## STORAGE

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