

# TIP120A (A-13): sc-10672

## 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 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.

## CHROMOSOMAL LOCATION

Genetic locus: CAND1 (human) mapping to 12q14.3; Cand1 (mouse) mapping to 10 D2.

## SOURCE

TIP120A (A-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TIP120A of rat origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-10672 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-10672 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TIP120A (A-13) is recommended for detection of TIP120A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

TIP120A (A-13) is also recommended for detection of TIP120A in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TIP120A siRNA (h): sc-37174, TIP120A siRNA (m): sc-37175, TIP120A shRNA Plasmid (h): sc-37174-SH, TIP120A shRNA Plasmid (m): sc-37175-SH, TIP120A shRNA (h) Lentiviral Particles: sc-37174-V and TIP120A shRNA (m) Lentiviral Particles: sc-37175-V.

TIP120A (A-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

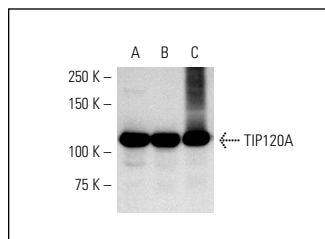
Molecular Weight of TIP120A: 120 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, HeLa nuclear extract: sc-2120 or rat testis extract: sc-2400.

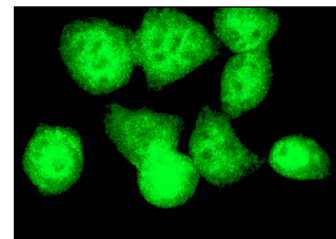
## STORAGE

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

## DATA



TIP120A (A-13): sc-10672. Western blot analysis of TIP120A expression in Jurkat (A) and HeLa (B) nuclear extracts and rat testis tissue extract (C).



TIP120A (A-13): sc-10672. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

## SELECT PRODUCT CITATIONS

- Liu, J., et al. 2002. NEDD8 modification of CUL1 dissociates p120<sup>CAND1</sup>, an inhibitor of CUL1-SKP1 binding and SCF ligases. *Mol. Cell* 10: 1511-1518.
- Bornstein, G., et al. 2006. Regulation of neddylation and deneddylation of cullin 1 in SCFSkp2 ubiquitin ligase by F-box protein and substrate. *Proc. Natl. Acad. Sci. USA* 103: 11515-11520.
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- Meyer-Schaller, N., et al. 2009. The human Dcn1-like protein DCNL3 promotes Cul3 neddylation at membranes. *Proc. Natl. Acad. Sci. USA* 106: 12365-12370.
- Mao, X., et al. 2011. Copper metabolism MURR1 domain containing 1 (COMMD1) regulates Cullin-RING ligases by preventing Cullin-associated NEDD8-dissociated (CAND1) binding. *J. Biol. Chem.* 286: 32355-32365.
- Chua, Y.S., et al. 2011. Regulation of cullin RING E3 ubiquitin ligases by CAND1 *in vivo*. *PLoS ONE* 6: e16071.
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## RESEARCH USE

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

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Try **TIP120A (G-3): sc-137055** or **TIP120A (B-8): sc-137124**, our highly recommended monoclonal alternatives to TIP120A (A-13).