

TudorSN (E-11): sc-166518

BACKGROUND

TudorSN functions in the Pim-1 regulation of Myb activity and acts as a transcriptional activator of EBNA-2. TudorSN also interacts with EAV, NSP1, GTF2E1 and GTF2E2, and forms a ternary complex with Stat6 and POLR2A. The staphylococcal nuclease-like (SN)-domains directly interact with amino acids 1099-1758 of CBP. TudorSN plays an important role in the assembly of Stat6 transcriptome and stimulates IL-4-dependent transcription by mediating interaction between Stat6 and CBP.

REFERENCES

- Levenson, J.D., et al. 1998. Pim-1 kinase and p100 cooperate to enhance c-Myb activity. *Mol. Cell* 2: 417-425.
- Tijms, M.A., et al. 2003. Equine arteritis virus non-structural protein 1, an essential factor for viral subgenomic mRNA synthesis, interacts with the cellular transcription J. *Gen. Virol.* 84: 2317-2322.
- Pauku, K., et al. 2003. Tudor and nuclease-like domains containing protein p100 function as co-activators for signal transducer and activator of transcription 5. *Mol. Endocrinol.* 17: 1805-1814.
- Broadhurst, M.K., et al. 2005. The p100 EBNA-2 co-activator: a highly conserved protein found in a range of exocrine and endocrine cells and tissues in cattle. *Biochim. Biophys. Acta* 1681: 126-133.
- Valineva, T., et al. 2005. The transcriptional co-activator protein p100 recruits histone acetyltransferase activity to Stat6 and mediates interaction between the CREB-binding protein and Stat6. *J. Biol. Chem.* 280: 14989-14996.

CHROMOSOMAL LOCATION

Genetic locus: SND1 (human) mapping to 7q32.1; Snd1 (mouse) mapping to 6 A3.3.

SOURCE

TudorSN (E-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 880-910 at the C-terminus of TudorSN 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-166518 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-166518 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 MSDS required.

PROTOCOLS

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

APPLICATIONS

TudorSN (E-11) is recommended for detection of TudorSN 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 TudorSN siRNA (h): sc-45514, TudorSN siRNA (m): sc-45515, TudorSN shRNA Plasmid (h): sc-45514-SH, TudorSN shRNA Plasmid (m): sc-45515-SH, TudorSN shRNA (h) Lentiviral Particles: sc-45514-V and TudorSN shRNA (m) Lentiviral Particles: sc-45515-V.

TudorSN (E-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

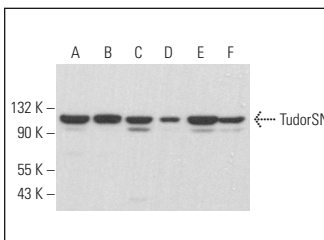
Molecular Weight of TudorSN: 100 kDa.

Positive Controls: Raji whole cell lysate: sc-364236, MCF7 whole cell lysate: sc-2206 or RAW 264.7 whole cell lysate: sc-2211.

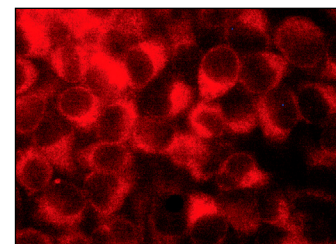
RECOMMENDED SUPPORT REAGENTS

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



TudorSN (E-11): sc-166518. Western blot analysis of TudorSN expression in Raji (A), MCF7 (B), WEHI-231 (C), 3T3-L1 (D), PC-12 (E) and RAW 264.7 (F) whole cell lysates.



TudorSN (E-11): sc-166518. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

RESEARCH USE

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