

TAF II p150 (S-16): sc-98161

BACKGROUND

TFIID is a general transcription factor that facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. TFIID is a multi-subunit complex consisting of a small TATA-binding polypeptide (TBP) and other TBP-associated factors (TAFs), and is essential for mediating promoter responses to multiple repressors and activators. TAF II p150 [TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor], also known as RNA polymerase II TBP-associated factor subunit B, transcription initiation factor TFIID subunit 2, TAF2B, CIF150, TAFII150 or TAF2, is a 1,199 amino acid protein which is widely expressed and localizes to the nucleus. TAF II p150 is a member of the TAF2 family, and is a component of both TFIID and the TFTC-HAT complex. TAF II p150 is known to stabilize TFIID binding to a core promoter and interacts with TAF II p135. The gene encoding TAF II p150 maps to human chromosome 8q24.12.

REFERENCES

1. Kaufmann, J., Verrijzer, C.P., Shao, J. and Smale, S.T. 1996. CIF, an essential cofactor for TFIID-dependent initiator function. *Genes Dev.* 10: 873-886.
2. Kaufmann, J., Ahrens, K., Koop, R., Smale, S.T. and Müller, R. 1998. CIF150, a human cofactor for transcription factor IID-dependent initiator function. *Mol. Cell. Biol.* 18: 233-239.
3. Martinez, E., Ge, H., Tao, Y., Yuan, C.X., Palhan, V. and Roeder, R.G. 1998. Novel cofactors and TFIIA mediate functional core promoter selectivity by the human TAFII150-containing TFIID complex. *Mol. Cell. Biol.* 18: 6571-6583.
4. Chalkley, G.E. and Verrijzer, C.P. 1999. DNA binding site selection by RNA polymerase II TAFs: a TAF(II)250-TAF(II)150 complex recognizes the initiator. *EMBO J.* 18: 4835-4845.
5. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 604912. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: TAF2 (human) mapping to 8q24.12; Taf2 (mouse) mapping to 15 D1.

SOURCE

TAF II p150 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TAF II p150 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-98161 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

TAF II p150 (S-16) is recommended for detection of TAF II p150 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).

TAF II p150 (S-16) is also recommended for detection of TAF II p150 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TAF II p150 siRNA (h): sc-77487, TAF II p150 siRNA (m): sc-154048, TAF II p150 shRNA Plasmid (h): sc-77487-SH, TAF II p150 shRNA Plasmid (m): sc-154048-SH, TAF II p150 shRNA (h) Lentiviral Particles: sc-77487-V and TAF II p150 shRNA (m) Lentiviral Particles: sc-154048-V.

Molecular Weight of TAF II p150: 137 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.