TAF II p28 (G-1): sc-393101



The Power to Question

BACKGROUND

TFIID is a general transcription factor that facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. TFIID is a multisubunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs). The TAF II family members include p18, p28, p32, p100, p130, p170 and p250, which is the largest subunit of TFIID. TAF II p32 is the human homologue of the Drosophila TAFII40 and is upregulated during apoptosis. TAFII p32 interacts with the activation domain of the viral protein 16, TFIIB and the class II transactivator (CIITA) to modulate transcription. The human and murine TAFII p32 proteins are distinct isoforms, designated TAF II p32 α and β , respectively, and they are thought to have individual roles in regulation. TAF II p28 and TAF II p18 interact with one another in vitro and intracellularly, and both interact with TBP through distinct domains. TAF II p28 potentiates transactivation of the estrogen and vitamin D_3 receptors (ER and VDR), and is the limiting factor in the RXRa activation pathway.

REFERENCES

- Matsui, T., et al. 1980. Multiple factors required for accurate initiation of transcription by purified RNA polymerase II. J. Biol. Chem. 255: 11992-11996.
- 2. Buratowski, S., et al. 1989. Five intermediate complexes in transcription initiation by RNA polymerase II. Cell 56: 549-561.
- Dynlacht, B.D., et al. 1991. Isolation of coactivators associated with the TATA-binding protein that mediate transcriptional activation. Cell 66: 563-576.
- Takada, R., et al. 1992. Identification of human TFIID components and direct interaction between a 250-kDa polypeptide and the TATA box-binding protein (TFIID). Proc. Natl. Acad. Sci. USA 89: 11809-11813.

CHROMOSOMAL LOCATION

Genetic locus: TAF11 (human) mapping to 6p21.31.

SOURCE

TAF II p28 (G-1) is a mouse monoclonal antibody raised against amino acids 54-211 mapping at the C-terminus of TAF II p28 of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TAF II p28 (G-1) is available conjugated to agarose (sc-393101 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-393101 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393101 PE), fluorescein (sc-393101 FITC), Alexa Fluor® 488 (sc-393101 AF488), Alexa Fluor® 546 (sc-393101 AF546), Alexa Fluor® 594 (sc-393101 AF594) or Alexa Fluor® 647 (sc-393101 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393101 AF680) or Alexa Fluor® 790 (sc-393101 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

APPLICATIONS

TAF II p28 (G-1) is recommended for detection of TAF II p28 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 TAF II p28 siRNA (h): sc-38494, TAF II p28 shRNA Plasmid (h): sc-38494-SH and TAF II p28 shRNA (h) Lentiviral Particles: sc-38494-V.

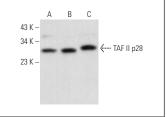
Molecular Weight of TAF II p28: 23 kDa.

Positive Controls: SK-N-MC nuclear extract: sc-2154, Hep G2 cell lysate: sc-2227 or HeLa nuclear extract: sc-2120.

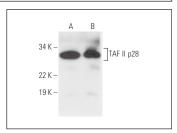
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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-lgG κ BP-FITC: sc-516140 or m-lgG κ 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







TAF II p28 (G-1): sc-393101. Western blot analysis of TAF II p28 expression in SK-N-MC ($\bf A$) and HeLa ($\bf B$) nuclear extracts.

STORAGE

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

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.