SANTA CRUZ BIOTECHNOLOGY, INC.

TAF II p70 (D-10): sc-393842

SANTA CRUZ BIOTECHNOLOGY

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, p20, p28, p30, p31, p32, p70, p100, p105, p130, p170 and p250, which is the largest subunit of TFIID. TAF II p70 (TATA-binding protein (TBP) associated factor II70), also known as TAF6, TAF2E, TAFII70, TAFII80 or TAFII85, is a member of the basal transcription complex. TAF II p70 directly interacts with TAF II p31, TAF II p20 and TAF II p250. It forms a heterodimer with TAF II p31 and may function as a p53 coactivator. The TAF II p70/TAF II p31 heterodimer forms a histone-like octamer complex with the TAF II p105/TAF II p20 heterodimer. Several TAF II p70 isoforms exist due to alternative splicing.

REFERENCES

1. 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.
3. Takada, R., et al. 1990. Identification of human TFIID components and direct interaction between a 250-kDa polypeptide and the TATA box-binding protein (TFIIDt). Proc. Natl. Acad. Sci. USA 89: 11809-11813.

CHROMOSOMAL LOCATION

Genetic locus: TAF6 (human) mapping to 7q22.1; Taf6 (mouse) mapping to 5 G2.

SOURCE

TAF II p70 (D-10) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of TAF II p70 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} 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-393842 X, 200 µg/0.1 ml.

TAF II p70 (D-10) is available conjugated to agarose (sc-393842 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393842 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393842 PE), fluorescein (sc-393842 FITC), Alexa Fluor® 488 (sc-393842 AF488), Alexa Fluor® 546 (sc-393842 AF546), Alexa Fluor® 594 (sc-393842 AF594) or Alexa Fluor® 647 (sc-393842 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393842 AF680) or Alexa Fluor® 790 (sc-393842 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

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

APPLICATIONS

TAF II p70 (D-10) is recommended for detection of TAF II p70 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).

TAF II p70 (D-10) is also recommended for detection of TAF II p70 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TAF II p70 siRNA (h): sc-89790, TAF II p70 siRNA (m): sc-106596, TAF II p70 shRNA Plasmid (h): sc-89790-SH, TAF II p70 shRNA Plasmid (m): sc-106596-SH, TAF II p70 shRNA (h) Lentiviral Particles: sc-89790-V and TAF II p70 shRNA (m) Lentiviral Particles: sc-106596-V.

TAF II p70 (D-10) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

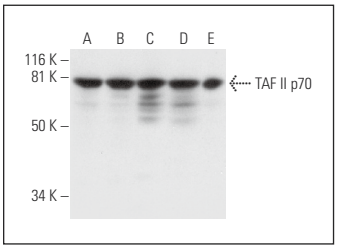
Molecular Weight of predominant TAF II p70 isoforms: 72/78 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HeLa nuclear extract: sc-2120 or A-431 nuclear extract: sc-2122.

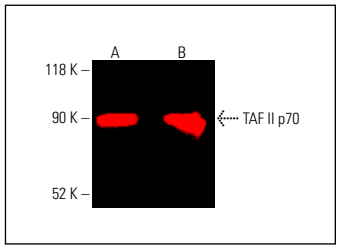
RECOMMENDED SUPPORT REAGENTS

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



TAF II p70 (D-10): sc-393842. Western blot analysis of TAF II p70 expression in A-431 (**A**), HeLa (**B**) and Hep G2 (**C**) nuclear extracts and Hep G2 (**D**) and HEK293T (**E**) whole cell lysates.



TAF II p70 (D-10): sc-393842. Near-Infrared western blot analysis of TAF II p70 expression in MOLT-4 (**A**) and Hep G2 (**B**) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgG_{2a} BP-CFL 790: sc-542740.

RESEARCH USE

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