SANTA CRUZ BIOTECHNOLOGY, INC.

TAF II p250 (A-10): sc-393981

BACKGROUND

TFIID is a general transcription factor which initiates pre-initiation complex assembly through direct interaction with the TATA promoter element. It is a multi-subunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs). Although native TFIID can mediate both activator-independent (basal) and activator-dependent transcription in reconstituted systems, TBP can mediate only basal transcription. The largest subunit (TAF) of TFIID is a protein designated TAF II p250. Of interest, TAF II p250 has been cloned and shown to be identical to CCG1, a nuclear DNA-binding protein known to be important for cell cycle progression. This part of TAF II p250 may serve a specific function in activation of a subset of genes important for cell cycle progression.

CHROMOSOMAL LOCATION

Genetic locus: TAF1 (human) mapping to Xq13.1; Taf1 (mouse) mapping to X D.

SOURCE

TAF II p250 (A-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1276-1315 within an internal region of TAF II p250 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} 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-393981 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-393981 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

TAF II p250 (A-10) is recommended for detection of TAFII p250 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 p250 (A-10) is also recommended for detection of TAFII p250 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for TAF II p250 siRNA (h): sc-37169, TAF II p250 siRNA (m): sc-37170, TAF II p250 shRNA Plasmid (h): sc-37169-SH, TAF II p250 shRNA Plasmid (m): sc-37170-SH, TAF II p250 shRNA (h) Lentiviral Particles: sc-37169-V and TAF II p250 shRNA (m) Lentiviral Particles: sc-37170-V.

TAF II p250 (A-10) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

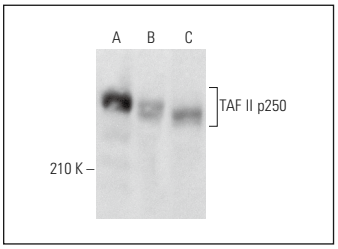
Molecular Weight of TAF II p250: 250 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HeLa whole cell lysate: sc-2200 or K-562 nuclear extract: sc-2130.

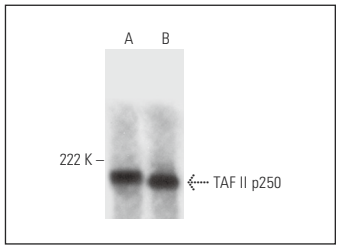
RECOMMENDED SUPPORT REAGENTS

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 p250 (A-10): sc-393981. Western blot analysis of TAF II p250 expression in Jurkat (**A**), NIH/3T3 (**B**) and NRK (**C**) whole cell lysates.



TAF II p250 (A-10): sc-393981. Western blot analysis of TAF II p250 expression in HeLa whole cell lysate (**A**) and K-562 nuclear extract (**B**).

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.

CONJUGATES

See **TAF II p250 (6B3): sc-735** for TAF II p250 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.