SANTA CRUZ BIOTECHNOLOGY, INC.

TFIIF RAP 30 (H-148): sc-292295

BACKGROUND

In eukaryotic systems, initiation of transcription from protein-coding genes is a complex process requiring RNA polymerase II and broad families of auxiliary transcription factors. Such factors can be divided into two major functional classes: the basal factors that are required for transcription of all Pol II genes, including TFIIA, TFIIB, TFIID, TFIIE, TFIIF and TFIIH; and sequence-specific factors that regulate gene expression. The basal transcription factors and Pol II form a specific multiprotein complex near the transcription start site by interacting with core promotor elements such as the TATA box generally located 25-30 base pairs upstream of the transcription start site. TFIIF, a heteromer composed of a small (RAP 30) and a large (RAP 74) subunit, is required for RNA polymerase II to assemble into a preinitiation complex formed by promotor DNA and the general factors TFIID, IIA and IIB. In addition, TFIIF stimulates transcription elongation by RNA polymerase II.

CHROMOSOMAL LOCATION

Genetic locus: GTF2F2 (human) mapping to 13q14.12; Gtf2f2 (mouse) mapping to 14 D3.

SOURCE

TFIIF RAP 30 (H-148) is a rabbit polyclonal antibody raised against amino acids 102-249 mapping near the C-terminus of TFIIF RAP 30 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292295 X, 200 µg/0.1 ml.

APPLICATIONS

TFIIF RAP 30 (H-148) is recommended for detection of TFIIF RAP 30 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).

TFIIF RAP 30 (H-148) is also recommended for detection of TFIIF RAP 30 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TFIIF RAP 30 siRNA (h): sc-38521, TFIIF RAP 30 siRNA (m): sc-38522, TFIIF RAP 30 shRNA Plasmid (h): sc-38521-SH, TFIIF RAP 30 shRNA Plasmid (m): sc-38522-SH, TFIIF RAP 30 shRNA (h) Lentiviral Particles: sc-38521-V and TFIIF RAP 30 shRNA (m) Lentiviral Particles: sc-38522-V.

TFIIF RAP 30 (H-148) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

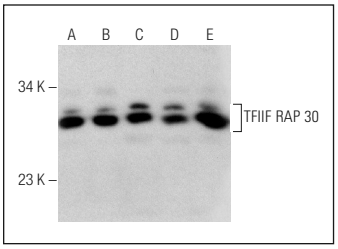
Molecular Weight of TFIIF RAP 30: 30 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, Jurkat nuclear extract: sc-2132 or HeLa nuclear extract: sc-2120.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TFIIF RAP 30 (H-148): sc-292295. Western blot analysis of TFIIF RAP 30 expression in K-562 (**A**), Jurkat (**B**), A-431 (**C**), HeLa (**D**) and U-937 (**E**) 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 or our catalog for detailed protocols and support products.