

# TFIIH p62 (H-300): sc-20695

## BACKGROUND

Initiation of transcription from protein-coding genes in eukaryotes is a complex process that requires RNA polymerase II, as well as families of basal transcription factors. Binding of the factor TFIID (TBP) to the TATA box is believed to be the first step in the formation of a multiprotein complex containing several additional factors, including TFIIA, TFIIB, TFIIE, TFIIIF and TFIIH. TFIIH (or BTF2) is a multisubunit transcription/DNA repair factor that possesses several enzymatic activities. The core of TFIIH is composed of five subunits, designated p89 (XPB or ERCC3), p62, p52, p44 and p34. Additional subunits of the TFIIH complex are p80 (XPD or ERCC2) and the ternary kinase complex composed of Cdk7, cyclin H and MAT1. Both p89 and p80 have ATP-dependent helicase activity. The p62, p52 and p44 subunits have been shown to be involved in nucleotide excision repair.

## CHROMOSOMAL LOCATION

Genetic locus: GTF2H1 (human) mapping to 11p15.1; Gtf2h1 (mouse) mapping to 7 B4.

## SOURCE

TFIIH p62 (H-300) is a rabbit polyclonal antibody raised against amino acids 249-548 mapping near the C-terminus of TFIIH p62 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-20695 X, 200 µg/0.1 ml.

## STORAGE

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

## APPLICATIONS

TFIIH p62 (H-300) is recommended for detection of TFIIH p62 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).

TFIIH p62 (H-300) is also recommended for detection of TFIIH p62 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TFIIH p62 siRNA (h): sc-38530, TFIIH p62 siRNA (m): sc-38531, TFIIH p62 shRNA Plasmid (h): sc-38530-SH, TFIIH p62 shRNA Plasmid (m): sc-38531-SH, TFIIH p62 shRNA (h) Lentiviral Particles: sc-38530-V and TFIIH p62 shRNA (m) Lentiviral Particles: sc-38531-V.

TFIIH p62 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

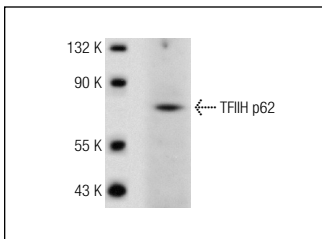
Molecular Weight of TFIIH p62: 62 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, 3611-RF nuclear extract: sc-2143 or F9 cell lysate: sc-2245.

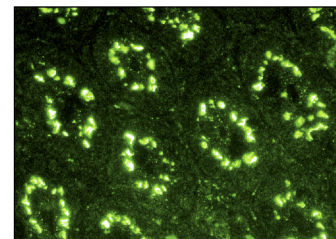
## RECOMMENDED SECONDARY REAGENTS

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



TFIIH p62 (H-300): sc-20695. Western blot analysis of TFIIH p62 expression in A549 nuclear extract.



TFIIH p62 (H-300): sc-20695. Immunofluorescence staining of normal mouse intestine frozen section showing nuclear staining.

## SELECT PRODUCT CITATIONS

1. Kim, Y.K., et al. 2006. Recruitment of TFIIH to the HIV LTR is a rate-limiting step in the emergence of HIV from latency. EMBO J. 25: 3596-3604.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Satisfaction  
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Try **TFIIH p62 (H-10): sc-25329** or **TFIIH p62 (G-10): sc-48431**, our highly recommended monoclonal alternatives to TFIIH p62 (H-300).