

# TIF1 $\alpha$ (H-190): sc-33185

## BACKGROUND

TIF1 $\alpha$  mediates transcriptional events by interactions with the AF2 region of several nuclear receptors, such as the estrogen, retinoic acid and vitamin D3 receptors. TIF1 $\alpha$  localizes to nuclear bodies and is thought to associate with chromatin and heterochromatin-associated factors. TIF1 $\alpha$  is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains (RING, B-box type 1 and B-box type 2) and a coiled-coil region. The TIF1 $\alpha$  gene, which maps to human chromosome 7q33, encodes two alternatively spliced transcripts. However, the full length nature of one variant has not been determined. A TIF1 $\alpha$  homolog (designated bonus) has been identified in *Drosophila* and is associated with several genes that are implicated in the ecdysone pathway, a nuclear hormone receptor pathway required throughout *Drosophila* development, suggesting a conserved functional role for the protein throughout the course of evolution.

## CHROMOSOMAL LOCATION

Genetic locus: TRIM24 (human) mapping to 7q33; Trim24 (mouse) mapping to 6 B1.

## SOURCE

TIF1 $\alpha$  (H-190) is a rabbit polyclonal antibody raised against amino acids 631-820 mapping within an internal region of TIF1 $\alpha$  of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g 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-33185 X, 200  $\mu$ g/0.1 ml.

## RESEARCH USE

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

## APPLICATIONS

TIF1 $\alpha$  (H-190) is recommended for detection of TIF1 $\alpha$  long and short isoforms of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

TIF1 $\alpha$  (H-190) is also recommended for detection of TIF1 $\alpha$  long and short isoforms in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TIF1 $\alpha$  siRNA (h): sc-38548, TIF1 $\alpha$  siRNA (m): sc-38549, TIF1 $\alpha$  shRNA Plasmid (h): sc-38548-SH, TIF1 $\alpha$  shRNA Plasmid (m): sc-38549-SH, TIF1 $\alpha$  shRNA (h) Lentiviral Particles: sc-38548-V and TIF1 $\alpha$  shRNA (m) Lentiviral Particles: sc-38549-V.

TIF1 $\alpha$  (H-190) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

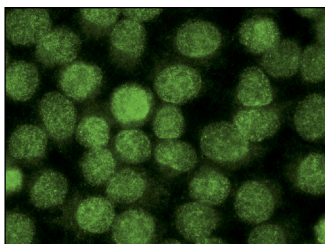
Molecular Weight of TIF1 $\alpha$ : 117 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

## 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



TIF1 $\alpha$  (H-190): sc-33185. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

## STORAGE

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

## PROTOCOLS

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



Try **TIF1 $\alpha$  (C-4): sc-271266**, our highly recommended monoclonal alternative to TIF1 $\alpha$  (H-190).