

TIF1 β (H-300): sc-33186

BACKGROUND

TIF1 β (transcriptional intermediary factor 1 β), also designated KAP1 (KRAB-associated protein 1), TF1 β and TRIM28 (tripartif motif-containing 28), is a member of the tripartif motif family characterized by three zinc-binding domains (RING, B-box type 1 and B-box type 2) and a coiled-coil domain. Like TIF1 α , TIF1 β contains both a Cys/His PHD (plant homeodomain) finger and bromodomain that form a cooperative unit required for transcriptional repression. TIF1 β mediates transcriptional control by interaction with the Krüppel-associated box (KRAB) repression domain found in many transcription factors and by binding DNA through its zinc finger. The human TIF1 β gene maps to human chromosome 19q13.43 and encodes an 835 amino acid nuclear protein.

CHROMOSOMAL LOCATION

Genetic locus: TRIM28 (human) mapping to 19q13.43; Trim28 (mouse) mapping to 7 A1.

SOURCE

TIF1 β (H-300) is a rabbit polyclonal antibody raised against amino acids 536-835 mapping at the C-terminus of TIF1 β of human origin.

PRODUCT

Each vial contains 200 μ g 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-33186 X, 200 μ g/0.1 ml.

APPLICATIONS

TIF1 β (H-300) is recommended for detection of TIF1 β of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 β (H-300) is also recommended for detection of TIF1 β in additional species, including bovine.

Suitable for use as control antibody for TIF1 β siRNA (h): sc-38550, TIF1 β siRNA (m): sc-38551, TIF1 β shRNA Plasmid (h): sc-38550-SH, TIF1 β shRNA Plasmid (m): sc-38551-SH, TIF1 β shRNA (h) Lentiviral Particles: sc-38550-V and TIF1 β shRNA (m) Lentiviral Particles: sc-38551-V.

TIF1 β (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TIF1 β : 100 kDa.

Positive Controls: CCRF-CEM nuclear extract: sc-2146, NIH/3T3 whole cell lysate: sc-2210 or TIF1 β (h): 293T Lysate: sc-116358.

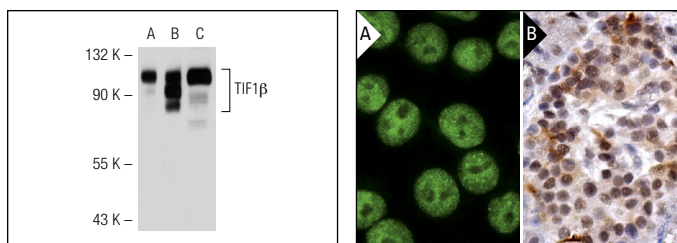
STORAGE

Store at 4 $^{\circ}$ 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.

DATA



TIF1 β (H-300): sc-33186. Western blot analysis of TIF1 β expression in non-transfected 293T: sc-117752 (A), human TIF1 β transfected 293T: sc-116358 (B) and CCRF-CEM (C) whole cell lysates.

TIF1 β (H-300): sc-33186. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing nuclear staining of Islets of Langerhans and glandular cells (B).

SELECT PRODUCT CITATIONS

- Chen, Y.C., et al. 2010. The inhibitory effect of superparamagnetic iron oxide nanoparticle (Ferucarbotran) on osteogenic differentiation and its signaling mechanism in human mesenchymal stem cells. *Toxicol. Appl. Pharmacol.* 245: 272-279.
- Cui, S., et al. 2011. Nuclear receptors TR2 and TR4 recruit multiple epigenetic transcriptional co-repressors that associate specifically with the embryonic β -type globin promoters in differentiated adult erythroid cells. *Mol. Cell. Biol.* 31: 3298-3311.
- Hu, C., et al. 2012. Roles of Krüppel-associated Box (KRAB)-associated Co-repressor KAP1 Ser-473 Phosphorylation in DNA Damage Response. *J. Biol. Chem.* 287: 18937-18952.

PROTOCOLS

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Try **TIF1 β (23): sc-136102**, our highly recommended monoclonal alternative to TIF1 β (H-300).