

TIF1 β (20A1): sc-56799

BACKGROUND

TIF1 β , for transcriptional intermediary factor 1 β , also designated KAP1 (for KRAB-associated protein 1), TIF1 β and TRIM28 (for tripartite motif-containing 28), is a member of the tripartite motif family characterized by three zinc-binding domains, a RING finger, B-boxes 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 Kruppel-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 19q13.4 and encodes an 835 amino acid nuclear protein.

REFERENCES

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3. Schultz, D., Freidman, J. and Rauscher, F. 2001. Targeting histone deacetylase complexes via KRAB-zinc finger proteins: the PHD and bromodomains of KAP-1 form a cooperative unit that recruits a novel isoform of the Mi-2 α subunit of NuRD. *Genes Dev.* 15: 428-443.
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5. Online Mendelian Inheritance in Man, OMIMTM. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 601742. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. LocusLink Report (LocusID: 10155). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: TRIM28 (human) mapping to 19q13.4; Trim28 (mouse) mapping to 7 A2.

SOURCE

TIF1 β (20A1) is a mouse monoclonal antibody raised against TIF1 β of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

TIF1 β (20A1) is recommended for detection of TIF1 β of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for TIF1 β siRNA (h): sc-38550.

Molecular Weight of TIF1 β : 100 kDa.

Positive Controls: CCRF-CEM nuclear extract: sc-2146.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz MarkerTM compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz MarkerTM Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

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.