

TRIM26 (A-7): sc-393832

BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM26 (tripartite motif-containing 26), also known as RNF95, AFP (acid finger protein, previously termed α -fetoprotein) or ZNF173 (zinc finger protein 173), is a 539 amino acid protein belonging to the TRIM/RBCC family that contains one B box-type zinc finger, a RING-type zinc finger and a single B30.2/SPRY domain. With coding regions highly conserved between mouse and human, TRIM26 is suggested to function in the binding of nucleic acids and is expressed in multiple tissues. The gene encoding TRIM26 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome.

CHROMOSOMAL LOCATION

Genetic locus: TRIM26 (human) mapping to 6p22.1; Trim26 (mouse) mapping to 17 B1.

SOURCE

TRIM26 (A-7) is a mouse monoclonal antibody raised against amino acids 115-255 mapping within an internal region of TRIM26 of human origin.

PRODUCT

Each vial contains 200 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRIM26 (A-7) is available conjugated to agarose (sc-393832 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393832 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393832 PE), fluorescein (sc-393832 FITC), Alexa Fluor[®] 488 (sc-393832 AF488), Alexa Fluor[®] 546 (sc-393832 AF546), Alexa Fluor[®] 594 (sc-393832 AF594) or Alexa Fluor[®] 647 (sc-393832 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-393832 AF680) or Alexa Fluor[®] 790 (sc-393832 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

RESEARCH USE

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

APPLICATIONS

TRIM26 (A-7) is recommended for detection of TRIM26 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRIM26 siRNA (h): sc-76744, TRIM26 siRNA (m): sc-76745, TRIM26 shRNA Plasmid (h): sc-76744-SH, TRIM26 shRNA Plasmid (m): sc-76745-SH, TRIM26 shRNA (h) Lentiviral Particles: sc-76744-V and TRIM26 shRNA (m) Lentiviral Particles: sc-76745-V.

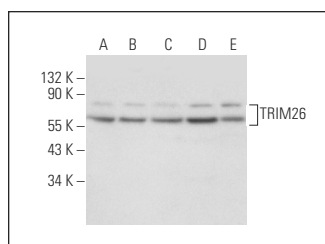
Molecular Weight of TRIM26: 62 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, A-431 whole cell lysate: sc-2201 or human liver extract: sc-363766.

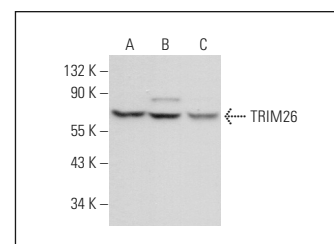
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



TRIM26 (A-7): sc-393832. Western blot analysis of TRIM26 expression in Jurkat (A), A-431 (B), RT-4 (C) and U-251-MG (D) whole cell lysates and human liver tissue extract (E).



TRIM26 (A-7): sc-393832. Western blot analysis of TRIM26 expression in U-251-MG (A), Daudi (B) and NIH/3T3 (C) whole cell lysates.

SELECT PRODUCT CITATIONS

- Dhawan, T., et al. 2021. TRIM26 facilitates HSV-2 infection by downregulating antiviral responses through the IRF3 pathway. *Viruses* 13: 70.
- Kato, K., et al. 2021. Structural analysis of RIG-I-like receptors reveals ancient rules of engagement between diverse RNA helicases and TRIM ubiquitin ligases. *Mol. Cell* 81: 599-613.e8.
- Zhao, J., et al. 2021. TRIM26 positively regulates the inflammatory immune response through K11-linked ubiquitination of TAB1. *Cell Death Differ.* 28: 3077-3091.
- Mahlkozyera, T., et al. 2021. Competitive binding of E3 ligases TRIM26 and WWP2 controls SOX2 in glioblastoma. *Nat. Commun.* 12: 6321.

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 for detailed protocols and support products.

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