**BACKGROUND**

TID-1 is the human homologue of the *Drosophila* tumor suppressor protein TID56. Both TID56 and TID-1 belong to the DnaJ family of proteins, which are characterized by a highly conserved J domain that influences apoptotic activity. The human TID-1 gene encodes two splice variants, TID-1 and TID-1s. TID-1 expression increases apoptosis, whereas a mutant J domain suppresses apoptosis. By contrast, TID-1s expression suppresses apoptosis, whereas a mutant J domain increases apoptosis. TID-1 and TID-1s are localized to the mitochondrial matrix, where they regulate apoptotic signal transduction by affecting cytochrome c release and caspase-3 activation. Both TID-1 and TID-1s are cleaved at amino acid 66 upon entry into the mitochondria, indicating that mature TID-1 and TID-1s represent cleavage products of cytoplasmic pre-proteins.

**CHROMOSOMAL LOCATION**

Genetic locus: DNAJA3 (human) mapping to 16p13.3; Dnaja3 (mouse) mapping to 16A1.

**SOURCE**

TID-1s (RS-13) is a mouse monoclonal antibody raised against recombinant TID-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

TID-1s (RS-13) is available conjugated to agarose (sc-18819 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-18819 HRP), 200 µg/ml, for WB, HICP and ELISA; to either phycoerythrin (sc-18819 PE), fluorescein (sc-18819 FITC), Alexa Fluor® 488 (sc-18819 AF488), Alexa Fluor® 546 (sc-18819 AF546), Alexa Fluor® 594 (sc-18819 AF594) or Alexa Fluor® 647 (sc-18819 AF647), 200 µg/ml, for WB (RGB), IF, IHC and FCM; and to either Alexa Fluor® 680 (sc-18819 AF680) or Alexa Fluor® 790 (sc-18819 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**RESEARCH USE**

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

**APPLICATIONS**

TID-1s (RS-13) is recommended for detection of TID-1 and TID-1s of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1,000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for TID-1s siRNA (h): sc-36767, TID-1s siRNA (m): sc-36767, TID-1s shRNA Plasmid (h): sc-36763-SH, TID-1s shRNA Plasmid (m): sc-36763-SH, TID-1s shRNA (h) Lentiviral Particles: sc-36763-V and TID-1s shRNA (m) Lentiviral Particles: sc-36764-V.

Molecular Weight of TID-1s: 40/43 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Western blot analysis of TID-1s expression in HeLa (A), Jurkat (B), K-562 (C), JAR (D), SK-LMS-1 (E) and MES-SA/Dx5 (F) whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


4. Wang, S.F., et al. 2019. Western blot analysis of TID-1s expression in HeLa (A), Jurkat (B), K-562 (C), JAR (D), SK-LMS-1 (E) and MES-SA/Dx5 (F) whole cell lysates.


**STORAGE**

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

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