

SODD (H-300): sc-8980

BACKGROUND

The cytokine TNF (tumor necrosis factor) signals through the TNF-R1 receptor to activate various cellular pathways, including apoptosis and NF κ B activation. TNF binding induces receptor aggregation, resulting in the recruitment of TRADD, FADD, TRAF2 and RIP to the intracellular "death" domain of the receptor complex, which in turn activates signaling pathways including apoptosis and NF κ B activation. SODD, for silencer of death domains, was found to be associated with the intracellular "death" domain of TNF-R1 in the absence of TNF stimulation. TNF treatment results in the release of SODD from TNF-R1, allowing the recruitment of TRADD and TRAF2 to the receptor complex. Thus, SODD may play a role in preventing spontaneous signaling by death-domain receptors, in the absence of ligand.

CHROMOSOMAL LOCATION

Genetic locus: BAG4 (human) mapping to 8p11.23; Bag4 (mouse) mapping to 8 A2.

SOURCE

SODD (H-300) is a rabbit polyclonal antibody raised against amino acids 158-457 mapping at the C-terminus of SODD 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.

APPLICATIONS

SODD (H-300) is recommended for detection of SODD 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).

SODD (H-300) is also recommended for detection of SODD in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SODD siRNA (h): sc-106839, SODD siRNA (m): sc-153680, SODD shRNA Plasmid (h): sc-106839-SH, SODD shRNA Plasmid (m): sc-153680-SH, SODD shRNA (h) Lentiviral Particles: sc-106839-V and SODD shRNA (m) Lentiviral Particles: sc-153680-V.

Molecular Weight of SODD: 49 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, THP-1 cell lysate: sc-2238 or MOLT-4 cell lysate: sc-2233.

RESEARCH USE

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

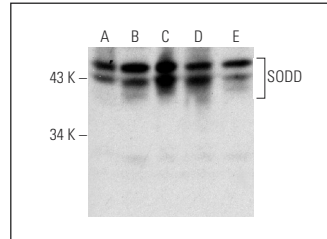
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

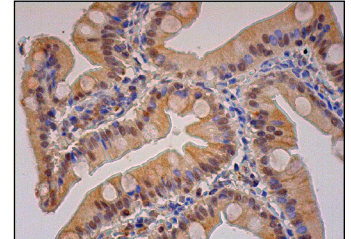
STORAGE

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

DATA



SODD (H-300): sc-8980. Western blot analysis of SODD expression in HeLa (A), THP-1 (B), MOLT-4 (C), Hep G2 (D) and K-562 (E) whole cell lysates.



SODD (H-300): sc-8980. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing nuclear and cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Eichholtz-Wirth, H., et al. 2000. I κ B/NF κ B mediated cisplatin resistance in HeLa cells after low-dose γ -irradiation is associated with altered SODD expression. *Apoptosis* 5: 255-263.
- Eichholtz-Wirth, H., et al. 2003. Overexpression of the "silencer of death domain", SODD/Bag-4, modulates both TNFR1- and CD95-dependent cell death pathways. *Cancer Lett.* 194: 81-89.
- Al-Lamki, R.S., et al. 2003. Expression of silencer of death domains and death-receptor-3 in normal human kidney and in rejecting renal transplants. *Am. J. Pathol.* 163: 401-411.
- Ivanov, S.S., et al. 2004. Antibodies immobilized as arrays to profile protein post-translational modifications in mammalian cells. *Mol. Cell. Proteomics* 3: 788-795.
- Bergeron, S., et al. 2004. Camptothecin- and etoposide-induced apoptosis in human leukemia cells is independent of cell death receptor-3 and -4 aggregation but accelerates tumor necrosis factor-related apoptosis-inducing ligand-mediated cell death. *Mol. Cancer Ther.* 3: 1659-1669.
- Gehrmann, M., et al. 2005. Dual function of membrane-bound heat shock protein 70 (HSP 70), Bag-4, and HSP 40: protection against radiation-induced effects and target structure for natural killer cells. *Cell Death Differ.* 12: 38-51.



Try **SODD (C-12): sc-166581**, our highly recommended monoclonal alternative to SODD (H-300).