

DcR1 (N-19): sc-7193

BACKGROUND

Tumor necrosis factor (TNF) is a pleiotropic cytokine whose function is mediated by two distinct cell surface receptors, designated TNF-R1 and TNF-R2, which are expressed on most cell types. TNF function is primarily mediated through TNF-R1 signaling. Both TNF-R1 and TNF-R2 belong to the growing TNF receptor superfamily which includes FAS antigen and CD40. TNF-R1 contains a cytoplasmic motif, termed the "death domain", that has been found to be necessary for the transduction of the apoptotic signal. The death domain is also found in several other receptors, including FAS, DR2 (or TRUNDD), DR3 (death receptor 3), DR4, DR5 and DR6. TRUNDD, DR4 and DR5 are receptors for the apoptosis-inducing cytokine TRAIL. Non-death domain-containing receptors, designated decoy receptor (DcR1 or TRID, DcR2 and DcR3), associate with specific ligands and may play a role in cellular resistance to apoptotic stimuli.

REFERENCES

1. Tartaglia, L.A., et al. 1993. A novel domain within the 55 kDa TNF receptor signals cell death. *Cell* 74: 845-853.
2. Smith, C.A., et al. 1994. The TNF receptor superfamily of cellular and viral proteins: activation, costimulation, and death. *Cell* 76: 959-962.
3. Nagata, S., et al. 1995. The FAS death factor. *Science* 267: 1449-1456.

CHROMOSOMAL LOCATION

Genetic locus: TNFRSF10C (human) mapping to 8p21.3.

SOURCE

DcR1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DcR1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7193 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DcR1 (N-19) is recommended for detection of DcR1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for DcR1 siRNA (h): sc-40235, DcR1 shRNA Plasmid (h): sc-40235-SH and DcR1 shRNA (h) Lentiviral Particles: sc-40235-V.

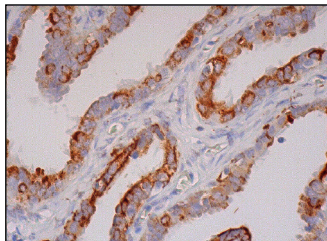
Molecular Weight of DcR1: 70 kDa.

Positive Controls: Raji whole cell lysate: sc-364236, K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

RESEARCH USE

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

DATA



DcR1 (N-19): sc-7193. Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing membrane and cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

1. Mitsiades, C., et al. 2001. TRAIL/Apo2L ligand selectively induces apoptosis and overcomes drug resistance in multiple myeloma: therapeutic applications. *Blood* 98: 795-804.
2. Ibrahim, S.M., et al. 2001. Pancreatic adenocarcinoma cell lines show variable susceptibility to TRAIL-mediated cell death. *Pancreas* 23: 72-79.
3. Vindrieux, D., et al. 2002. Identification of tumor necrosis factor α -related apoptosis-inducing ligand (TRAIL) and its receptors in adult rat ventral prostate. *Mol. Cell. Endocrinol.* 198: 115-121.
4. Grataroli, R., et al. 2004. Characterization of tumour necrosis factor α -related apoptosis-inducing ligand and its receptors in the adult human testis. *Mol. Hum. Reprod.* 10: 123-128.
5. Vindrieux, D., et al. 2006. TNF α -related apoptosis-inducing ligand decoy receptor DcR2 is targeted by androgen action in the rat ventral prostate. *J. Cell. Physiol.* 206: 709-717.
6. Ouellet, V., et al. 2007. An apoptotic molecular network identified by microarray: on the TRAIL to new insights in epithelial ovarian cancer. *Cancer* 110: 297-308.
7. Vindrieux, D., et al. 2011. Down-regulation of DcR2 sensitizes androgen-dependent prostate cancer LNCaP cells to TRAIL-induced apoptosis. *Cancer Cell Int.* 11: 42.

STORAGE

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



Try **DcR1 (C-6): sc-365279**, our highly recommended monoclonal alternative to DcR1 (N-19).