**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 receptors 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 and DR5. TRUNDD, DR4 and DR5 are receptors for the apoptosis-inducing cytokine TRAIL. A non-death domain-containing receptor, designated decoy receptor (Dr1 or TRID), also specifically associates with TRAIL and may play a role in cellular resistance to apoptotic stimuli.

**CHROMOSOMAL LOCATION**

Genetic locus: TNFRSF10B (human) mapping to 8p21.3.

**SOURCE**

DR5 (D-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 48-76 within an internal region of DR5 of human origin.

**PRODUCT**

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

DR5 (D-6) is available conjugated to agarose (sc-166624 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166624 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-166624 PE), fluorescein (sc-166624 FITC), Alexa Fluor® 488 (sc-166624 AF488) or Alexa Fluor® 647 (sc-166624 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

Blocking peptide available for competition studies, sc-166624 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein).

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**APPLICATIONS**

DR5 (D-6) is recommended for detection of DR5 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 DR5 siRNA (h): sc-40237, DR5 shRNA Plasmid (h): sc-40237-SH and DR5 shRNA (h) Lentiviral Particles: sc-40237-V.

Molecular Weight of DR5: 48 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207 or DR5 (h): 293 Lysate: sc-110563.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

- **DR5 (D-6) HRP: sc-166624 HRP. Direct western blot analysis of DR5 expression in non-transfected: sc-110760 (A) and human DR5 transfected: sc-110563 (B) 293 whole cell lysates.**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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