

DR3 (C-20): sc-6175

BACKGROUND

Tumor necrosis factor (TNF)-related cytokines are pleiotropic factors that initiate various cellular processes including cell death, proliferation and differentiation. Their effects are mediated by a family of receptors which includes TNF-R1, TNF-R2, NGFR (nerve growth factor receptor) and FAS. The members of this family are type I membrane receptors and are characterized by the presence of cysteine-rich repeats in their extracellular domains. Several of these receptors, including TNF-R1 and FAS, contain a region of intracellular homology, designated the death domain, known to signal apoptosis. A new death domain member of this family, DR3 (also designated Wsl-1, APO-3, TRAMP and LARD) has been shown to induce apoptosis and activation of NF κ B. DR3 is most similar in sequence to TNF-R1, but is more restricted in tissue distribution. DR3 is highly expressed in thymocytes and lymphocytes.

CHROMOSOMAL LOCATION

Genetic locus: TNFRSF25 (human) mapping to 1p36.31.

SOURCE

DR3 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of DR3 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.

Blocking peptide available for competition studies, sc-6175 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

DR3 (C-20) is recommended for detection of DR3 of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

DR3 (C-20) is also recommended for detection of DR3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DR3 siRNA (h): sc-35216, DR3 shRNA Plasmid (h): sc-35216-SH and DR3 shRNA (h) Lentiviral Particles: sc-35216-V.

Molecular Weight (predicted) of DR3: 45 kDa.

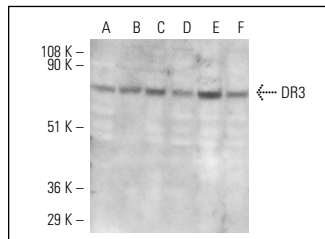
Molecular Weight (observed) of DR3: 56-70 kDa.

Positive Controls: C32 whole cell lysate: sc-2205, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

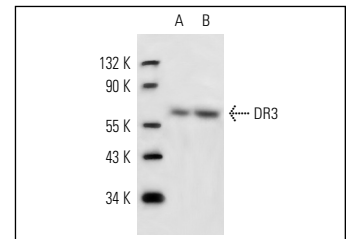
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



DR3 (C-20): sc-6175. Western blot analysis of DR3 expression in C32 (A), MIA PaCa-2 (B), SK-N-MC (C), WI-38 (D), Jurkat (E) and HeLa (F) whole cell lysates.



DR3 (C-20): sc-6175. Western blot analysis of DR3 expression in HeLa (A) and Jurkat (B) whole cell lysates.

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.


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Guaranteed

Try **DR3 (B-8): sc-374203** or **DR3 (D3 2-1-1): sc-53974**, our highly recommended monoclonal alternatives to DR3 (C-20).