# DR3 (W-20): sc-31347



The Power to Question

### **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 charaterized 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 WsI-1, APO-3, TRAMP and LARD) has been shown to induce apoptosis and activation of NF $\kappa$ 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.

# **REFERENCES**

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- Ware, C.F., et al. 1996. Apoptosis mediated by the TNF-related cytokine and receptor families. J. Cell. Biochem. 60: 47-55.
- 5. Kitson, J., et al. 1996. A death-domain-containing receptor that mediates apoptosis. Nature 384: 372-375.
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- 7. Marsters, S.A., et al. 1996. APO-3, a new member of the tumor necrosis factor receptor family, contains a death domain and activates apoptosis and NF $\kappa$ B. Curr. Biol. 6: 1669-1676.
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## **CHROMOSOMAL LOCATION**

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

### SOURCE

DR3 (W-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of DR3 of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-31347 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **RESEARCH USE**

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

#### **APPLICATIONS**

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

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) 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.

# **STORAGE**

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

### **PROTOCOLS**

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



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

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