

## Product Information

### ANTI-DcR3 (TNFRSF6B, TR6)

Developed in Rabbit, IgG Fraction of Antiserum

Product Number **D1814**

#### Product Description

Anti-DcR3 is developed in rabbit using a peptide corresponding to amino acids 31-46 (AETPTYPWRDAETGER) of human DcR3 precursor as immunogen.<sup>1,2</sup>

Anti-DcR3 recognizes DcR3 by immunoblotting (33 kDa). Species reactivity is observed with human, mouse and rat.

Apoptosis or programmed cell death is induced in cells by a group of death domain-containing receptors including TNFR1, Fas, DR3, DR4, and DR5. Binding of ligand to these receptors sends signals that activate members of the caspase family of proteases. The signals ultimately cause the degradation of chromosomal DNA by activating DNase.

Two decoy receptors, DcR1 and DcR2, were recently identified to compete with DR4 and DR5 for their ligand TRAIL binding. A novel decoy receptor was more recently discovered and designated DcR3 and TR6, respectively.<sup>1,2</sup> Unlike DcR1 and DcR2, DcR3 is a soluble rather than a membrane associated molecule. DcR3 binds to FasL and LIGHT and inhibits FasL and LIGHT induced apoptosis.<sup>1,2</sup> DcR3 transcript is expressed in a number of lung and colon carcinomas and in some normal tissues.

#### Reagents

Anti-DcR3 is supplied as 0.5 mg/ml of IgG fraction of antiserum in phosphate buffered saline, containing 0.02% sodium azide

#### Storage/Stability

For continuous use, store at 2-8°C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling practices.

#### Product Profile

The recommended working concentration is 0.5 – 1 µg/ml (1:1,000 – 1:500 dilution) by immunoblotting using human heart, brain or kidney lysates. A band of approximately 33 kDa is detected.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

#### References

1. Pitti, R.M., et al., Genomic amplification of a decoy receptor for Fas ligand in lung and colon cancer. *Nature*, **396**, 699-703 (1998).
2. Yu, K.Y., et al., A newly identified member of tumor necrosis factor receptor superfamily (TR6) suppresses LIGHT-mediated apoptosis. *J. Biol. Chem.*, **274**, 13733-6 (1999).

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