

Product Information

ANTI-DR6 (Death Receptor 6)

Developed in Rabbit, IgG Fraction of Antiserum

Product Number **D1564**

Product Description

Anti-DR6 (Death Receptor 6) is developed in rabbit using a peptide corresponding to amino acids 42-56 of N-terminal of human DR6 precursor as immunogen.¹

Anti-DR6 specifically recognizes DR6 (68 kDa) by immunoblotting using human K562 or Raji cell lysates.

Apoptosis or programmed cell death is induced in cells by a group of death domain-containing receptors including TNFR1, Fas, DR3, DR4, DR5 and DR6. 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.

A new death domain containing receptor in the TNFR family was cloned recently and termed DR6 for death receptor-6.¹ Like other death receptors, DR6 is a type I transmembrane receptor and possesses four extracellular cysteine-rich motifs and a cytoplasmic death domain. DR6 is expressed in most human tissues and abundant transcript was detected in heart, brain, placenta, pancreas, thymus, lymph node and several non-lymphoid cancer cell lines. DR6 interacts with TRADD, which has previously been shown to associate with TNFR1. Furthermore, ectopic expression of DR6 in mammalian cells induces apoptosis and activation of both NF- κ B and JNK.¹ The ligand for DR6 has not been identified.

Reagents

Anti-DR6 is supplied at 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 0.25 – 1 μ g/ml (1:2,000 – 1:500 dilution) by immunoblotting using human K562 or Raji cell lysates. A band of approximately 68 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. Pan, G., et al., Identification and functional characterization of DR6, a novel death domain-containing TNF receptor. *FEBS Lett.*, **431**, 351-356 (1998).

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