

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human TRAIL R4/TNFRSF10D in ELISAs and Western blots. In sandwich immunoassays, less than 5% cross-reactivity with recombinant human (rh) TRAIL R1, rhTRAIL R2, TRAIL R3, rhTRAIL, rhTNF-α, and rhTNF-β is observed. |
| Source | Monoclonal Mouse IgG ₁ Clone # 104918 |
| Purification | Protein A or G purified from ascites |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human TRAIL R4/TNFRSF10D Ala56-His211 Accession # Q9UBN6 |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------------|--------------------------------|
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | Human whole blood granulocytes |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

Human TRAIL R4, also called decoy receptor 2 (DcR2) and TRUNND (TRAIL receptor with a truncated death domain), is a type I, TNF R family transmembrane protein, which is a receptor for TRAIL (APO2 ligand). In the TNF superfamily nomenclature, TRAIL R4 is designated as TNFRSF10D. TRAIL R4 is unique among the TRAIL receptors in that its cytoplasmic domain contains a truncated consensus death domain motif. Binding of TRAIL R4 does not result in an apoptotic signal. Overexpression of TRAIL R4 can protect cells bearing TRAIL R1 and/or TRAIL R2 from TRAIL-mediated apoptosis. The human soluble TRAIL R4/Fc chimera neutralizes the ability of TRAIL to induce apoptosis.

References:

1. Griffith, T.S. *et al.* (1998) *Curr. Opin. Immunol.* **10**:559.
2. Pan, G. *et al.* (1998) *FEBS Lett* **424**:41.
3. Marsters, S.A. *et al.* (1997) *Cur. Biol.* **7**:1003.
4. Degli-Esposti, M.A. *et al.* (1997) *Immunity* **7**:813.

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