

DESCRIPTION

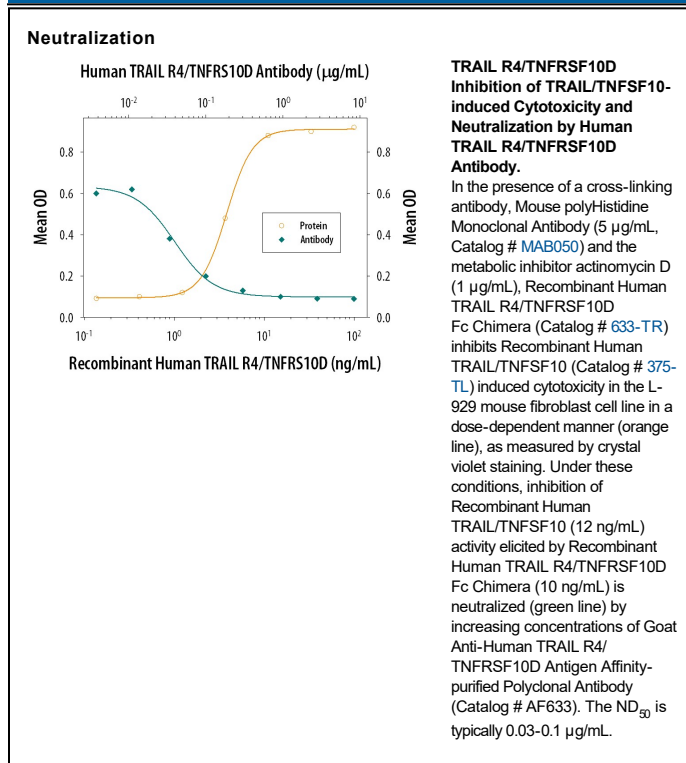
Species Reactivity	Human
Specificity	Detects human TRAIL R4/TNFRSF10D in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) TRAIL R1, rhTRAIL R2, and rhTRAIL R3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TRAIL R4/TNFRSF10D Ala56-His211 Accession # Q9UBN6
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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
Western Blot	0.1 µg/mL	Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera (Catalog # 633-TR)
Flow Cytometry	2.5 µg/10 ⁶ cells	Human whole blood granulocytes
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human brain (occipital cortex) subjected to Antigen Retrieval Reagent-Basic (Catalog # CTS013)
CyTOF-ready		Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.
Neutralization		Measured by its ability to neutralize TRAIL R4/TNFRSF10D-mediated inhibition of cytotoxicity in the L-929 mouse fibroblast cell line. The Neutralization Dose (ND ₅₀) is typically 0.03-0.1 µg/mL in the presence of 10 ng/mL Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human TRAIL R4, also called decoy receptor 2 (DcR2) and TRUNND (TRAIL receptor with a truncated death domain), is a type 1, TNF R family membrane protein, which is a receptor for TRAIL (APO2 ligand). In the new TNF superfamily nomenclature, TRAIL R4 is referred to 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.