

DESCRIPTION

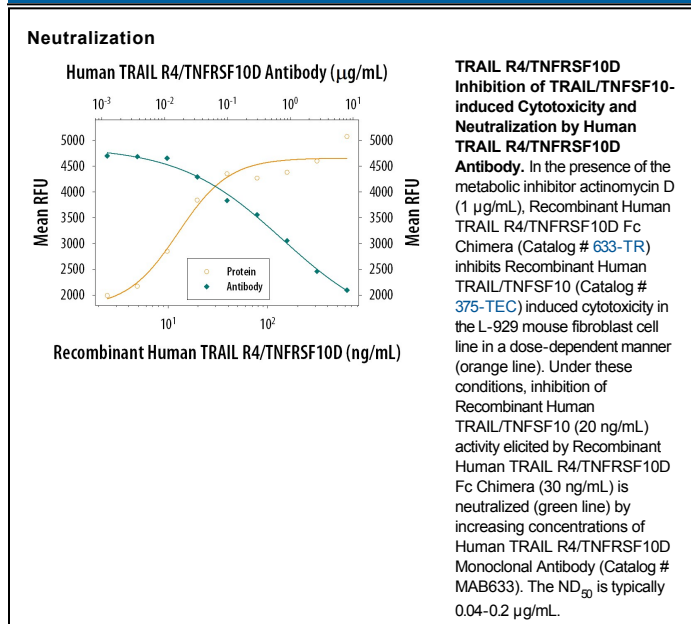
Species Reactivity	Human
Specificity	Detects human TRAIL R4/TNFRSF10D in ELISAs and Western blots. In sandwich immunoassays, less than 5% cross-reactivity with recombinant human (rh) TRAIL R1, rhTRAIL R2, TRAIL R3, rhTRAIL, rhTNF- α , and rhTNF- β is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 104918
Purification	Protein A or G purified from ascites
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TRAIL R4/TNFRSF10D Ala56-His211 Accession # Q9UBN6
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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	1 μ g/mL	Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera (Catalog # 633-TR) under non-reducing conditions only
Flow Cytometry	2.5 μ g/10 ⁶ cells	Human whole blood granulocytes
Human TRAIL R4/TNFRSF10D Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Human TRAIL R4/TNFRSF10D Antibody (Catalog # MAB633)
ELISA Detection Standard	0.1-0.4 μ g/mL	Human TRAIL R4/TNFRSF10D Biotinylated Antibody (Catalog # BAF633) Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera (Catalog # 633-TR)
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 0.04-0.2 μ g/mL in the presence of 30 ng/mL Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera, 20 ng/mL of Recombinant Human TRAIL/TNFSF10, and 1 μ g/mL actinomycin D.	

DATA



PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 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.

- 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 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.