

DESCRIPTION

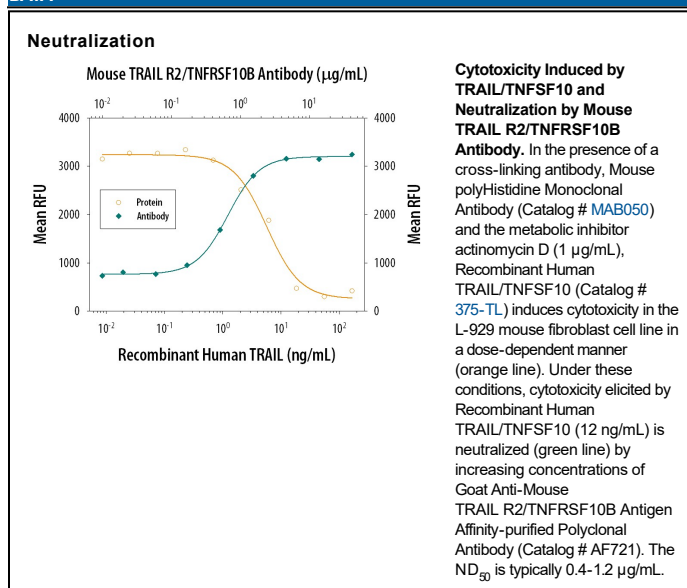
Species Reactivity	Mouse
Specificity	Detects mouse TRAIL R2 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) TRAIL R2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TRAIL R2/TNFRSF10B Asn53-Ser177 Accession # Q6GSD9
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 Mouse TRAIL R2/TNFRSF10B
Flow Cytometry	0.25 µg/10 ⁶ cells	A20 mouse cell line
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/TNFSF10-induced cytotoxicity in the L-929 mouse fibroblast cell line. The Neutralization Dose (ND ₅₀) is typically 0.4-1.2 µg/mL in the presence of 12 ng/mL Recombinant Human TRAIL/TNFSF10, a cross-linking antibody, Mouse polyHistidine Monoclonal Antibody, and 1 µg/mL actinomycin D.	

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

Mouse TRAIL R2, also called DR5, TRICK 2, TNFRSF10B, and MK is a type 1 TNF R superfamily, membrane protein which is a receptor for TRAIL (APO2 ligand). Mouse TRAIL R2 cDNA encodes a 381 amino acid residue precursor protein containing an extracellular cysteine-rich domain, a transmembrane domain and a cytoplasmic death domain. Human and mouse TRAIL R2 share 49% amino acid sequence similarity. The death domains of human TRAIL R1 and TRAIL R2 share high homology with the death domain of mouse TRAIL R2, 76% and 79%, respectively. Binding of trimeric TRAIL to TRAIL R2 induces apoptosis. The induction of apoptosis likely requires oligomerization of the receptor. The mouse TRAIL R2/Fc chimera neutralizes the ability of rhTRAIL to induce apoptosis. Besides the death domain containing receptors TRAIL R2 and TRAIL R1/DR4, three TRAIL decoy receptors, TRAIL R3/DcR1, TRAIL R4/DcR2, and OPG, have been reported.

References:

1. Chaudhary, P.M. *et al.* (1997) *Immunity* **7**:821.
2. Walczak, H. *et al.* (1997) *EMBO J.* **16**:5386.
3. Golstein, P. (1997) *Curr. Biol.* **7**:R750.
4. Wu, G.S. *et al.* (1999) *Cancer Research* **59**:2770.