

Human TRAILR4/TNFRSF10D Antibody

Recombinant Monoclonal Mouse IgG₁ Clone # 104918R Catalog Number: MAB633R

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human TRAIL R4/TNFRSF10D in direct ELISAs.	
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 104918R	
Purification	Protein A or G purified from cell culture supernatant	
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.	

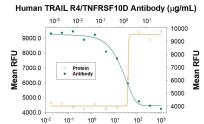
APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below		
CyTOF-ready	Ready to 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 (ND50) is typically 0.3-1.8 μg/mL in the presence of 90 ng/mL Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera, 20 ng/mL of Recombinant Human TRAIL/TNFSF10 and actinomycin D.			
ELISA	This antibody functions as an ELISA ca Antigen Affinity-purified Polyclonal Ant	pture antibody when paired with Goat Anti-Human TRAILR4/TNFRSF10D ibody (Catalog # AF633).		
	·	elopment on various assay platforms requiring antibody pairs. We RSF10D DuoSet ELISA Kit (Catalog # DY633) for convenient development		



Flow Cytometry

Detection of TRAILR4 in Human peripheral blood cells by Flow Cytometry. Human peripheral blood cells were stained with (A) Mouse Anti-Human TRAILR4 Monoclonal Antibody (Catalog # MAB663R) or (B) Mouse IgG1 isotype control antibody (Catalog # Catalog # MAB002) followed by PE-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0102B) and Mouse anti-Human CEACAM-8/CD66b APC-conjugated Monoclonal Antibody (Catalog # Catalog # FAB4246A). View our protocol for Staining Membrane-associated Proteins.

Neutralization



Recombinant Human TRAIL R4/TNFRSF10D (ng/mL)

TRAIL R4/TNFRSF10D Inhibition of TRAIL/TNFSF10induced Cytotoxicity and Neutralization by Human TRAIL R4/TNFRSF10D

Antibody. In the presence of the

metabolic inhibitor actinomycin D, Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera (Catalog # Catalog # 633-TR) inhibits Recombinant Human TRAIL/TNFSF10 (Catalog # Catalog # 375-TEC) induced cytotoxicity in the L-929 mouse fibroblast cell line in a dosedependent manner (orange line). Under these conditions, inhibition of Recombinant Human TRAIL/TNFSF10 (20 ng/mL) activity elicited by Recombinant Human TRAIL R4/TNFRSF10D Fc Chimera (90 ng/mL) is neutralized (green line) by increasing concentrations of Human TRAIL R4/TNFRSF10D Monoclonal Antibody (Catalog # MAB633R). The ND50is typically 0.3-1.8 µg/mL.

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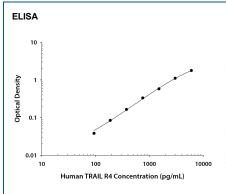




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Human TRAILR4/TNFRSF10D **ELISA Standard Curve.**

Recombinant Human TRAILR4/TNFRSF10D protein was serially diluted 2-fold and captured by Mouse Anti-Human TRAILR4/TNFRSF10D Monoclonal Antibody (Catalog # MAB633R) coated on a Clear Polystyrene Microplate (Catalog #DY990). Goat Anti-Human TRAILR4/TNFRSF10D Antigen Affinity-purified Polyclonal Antibody (Catalog # AF633) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY998) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

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.

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