

DESCRIPTION

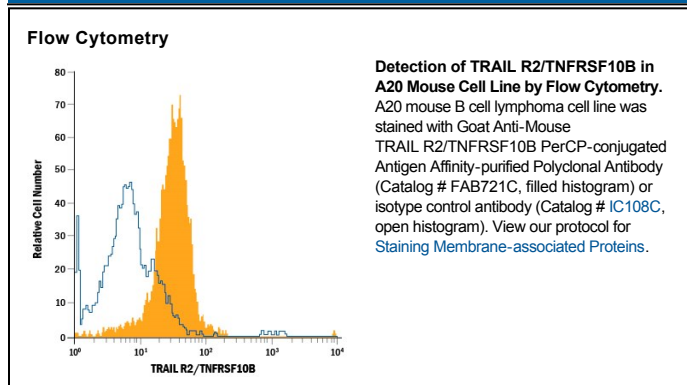
Species Reactivity	Mouse
Specificity	Detects mouse TRAIL R2/TNFRSF10B in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) TRAIL R1, rhTRAIL R2, rhTRAIL R3, and rhTRAIL R4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TRAIL R2/TNFRSF10B Asn53-Ser177 Accession # Q6GSD9
Conjugate	PerCP (Peridinin-chlorophyll Protein Complex) Excitation Wavelength: 482 and 564 nm Emission Wavelength: 675 nm
Formulation	Supplied 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	10 μ L/ 10^6 cells	See Below

DATA



PREPARATION AND STORAGE

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. ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Mouse TRAIL R2, also known as 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.