Human TRAIL R1/TNFRSF10A Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 69036

Catalog Number: FAB347T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human TRAIL R1/TNFRSF10A in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TRAIL R2, rhTRAIL R3, rhTRAIL R4, or rhDcR3 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 69036
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human TRAIL R1/TNFRSF10A Ala24-Asn239 Accession # AAC51226
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10^6 cells	HeLa human cell line

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

Human TRAIL R1, also called DR4, is a type 1, TNF R family, membrane protein which is a receptor for TRAIL (APO2 ligand). In the TNF superfamily nomenclature, TRAIL RI is referred to as TNFRSF10A. TRAIL R1 cDNA encodes a 468 amino acid precursor protein containing extracellular cysteine-rich domains, a transmembrane domain and a cytoplasmic death domain. Among the TNF receptor family proteins, TRAIL R1 is most closely related to TRAIL R2/DR5, sharing 55% amino acid sequence identity. Binding of trimeric TRAIL to TRAIL R1 induces apoptosis. The induction of apoptosis likely requires oligomerization of the receptor. The human TRAIL R1/Fc chimera neutralizes the ability of TRAIL to induce apoptosis. Besides TRAIL R1, an additional TRAIL R2/DR5, which tranduces apoptosis signal, and two TRAIL decoy receptors, which antagonize TRAIL-induced apoptosis, have been reported.

References:

1. Pan, G. *et al*. (1997) Science **276**:111.
2. Golstein, P. (1997) Curr. Biol. **7**:R750.

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