**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, Clone # 69036  

**Purification**  
Protein A or G purified from hybridoma culture supernatant  

**Immunogen**  
*S. frugiperda* insect ovarian cell line Sf21-derived recombinant human TRAIL R1/TNFRSF10A  
A1a24-Asn239  
Accession # AAC51226  

**Conjugate**  
Phycoerythrin  

**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 µL/10^6 cells | See Below |  

**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 R1 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 transduces apoptosis signal, and two TRAIL decoy receptors, which antagonize TRAIL-induced apoptosis, have been reported.  

**References:**  

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**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.