

## DESCRIPTION

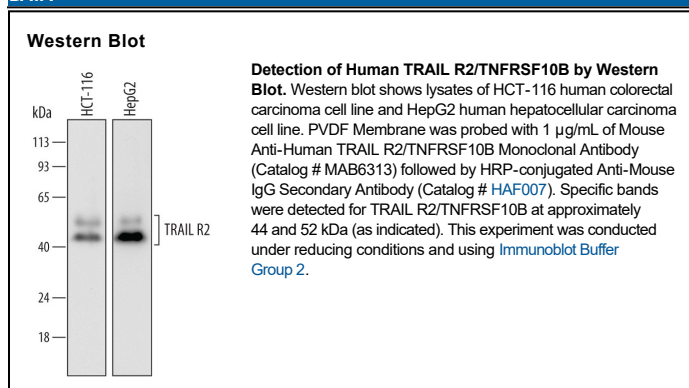
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRAIL R2/TNFRSF10B in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) 4-1BB, rhBAFF R, rhCD27, rhCD30, rhCD40, rhDR3, rhDR6, rhEDAR, rhFas, rhGITR, rhHVEM, rhOPG, rhRANK, rhRELt, rhTNF RI, rhTNF RII, rhTRAIL R1, rhTRAIL R3, rhTRAIL R4, or rhTWEAK R is observed. Additionally in direct ELISAs, no cross-reactivity with rhTRAIL R4, rhXEDAR, recombinant mouse (rm) DR5, rhTRAIL R1, rmTRAIL R2, or rmTNFRH3 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 603307
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TRAIL R2/TNFRSF10B Ile56-Pro128 Accession # NP_003833
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Human TRAIL R2, also known as DR5 and TRICK 2, is a type 1 membrane protein of the TNF R family, designated TNFRSF10B, which is a receptor for TRAIL (APO2 ligand). The human TRAIL R2 cDNA encodes a 440 amino acid (aa) precursor protein containing extracellular cysteine-rich domains, a transmembrane domain and a cytoplasmic death domain. Among TNF receptor family proteins, TRAIL R2 is most closely related to TRAIL R1/DR4, sharing 55% aa sequence identity. Binding of trimeric TRAIL to TRAIL R2 induces apoptosis. The induction of apoptosis likely requires oligomerization of the receptor. The human TRAIL R2/Fc chimera neutralizes the ability of TRAIL to induce apoptosis. Besides TRAIL R2, an additional TRAIL R1/DR4, which transduces apoptosis signaling, and two TRAIL decoy receptors, which antagonize TRAIL-induced apoptosis, 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.