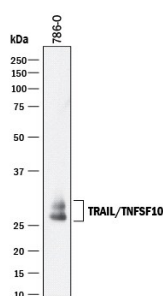
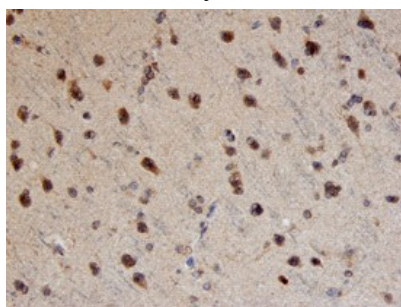
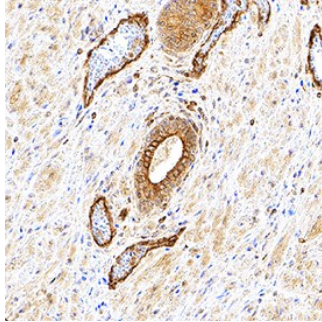


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRAIL/TNFSF10 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse TRAIL is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human TRAIL/TNFSF10 Thr95-Gly281 Accession # P50591
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below
<b>Neutralization</b>	Measured by its ability to neutralize TRAIL/TNFSF10-induced cytotoxicity in the L-929 mouse fibroblast cell line. The Neutralization Dose (ND <sub>50</sub> ) is typically 10-60 ng/mL in the presence of 12 ng/mL Recombinant Human TRAIL/TNFSF10, cross-linking Anti-Mouse His Tag Monoclonal Antibody and Actinomycin D.	

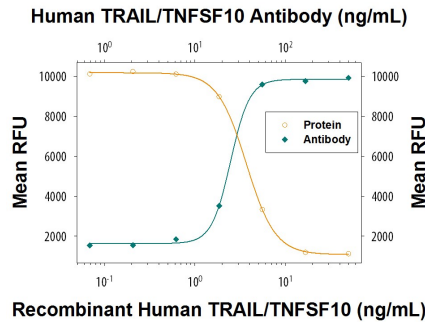
DATA		
<p><b>Western Blot</b></p>  <p><b>Detection of Human TRAIL/TNFSF10 by Western Blot.</b> Western blot shows lysates of 786-O human renal cell adenocarcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TRAIL/TNFSF10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF375) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). Specific bands were detected for TRAIL/TNFSF10 at approximately 27 and 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>TRAIL/TNFSF10 in Human Brain.</b> TRAIL/TNFSF10 was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using Goat Anti-Human TRAIL/TNFSF10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF375) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>	

## Immunohistochemistry



**TRAIL/TNFSF10 in Human Prostate Cancer Tissue.** TRAIL/TNFSF10 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Goat Anti-Human TRAIL/TNFSF10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF375) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell membrane. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

## Neutralization



**Cytotoxicity Induced by TRAIL/TNFSF10 and Neutralization by Human TRAIL/TNFSF10 Antibody.** In the presence of a cross-linking antibody, Mouse Anti-His Tag Monoclonal Antibody (Catalog # MAB050), and the metabolic inhibitor Actinomycin D, Recombinant Human TRAIL/TNFSF10 (Catalog # 375-TL) induces cytotoxicity in the L-929 mouse fibroblast cell line in a dose-dependent manner (orange line), as measured by Resazurin (Catalog # AR002). Under these conditions, cytotoxicity elicited by Recombinant Human TRAIL/TNFSF10 (12 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human TRAIL/TNFSF10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF375). The  $ND_{50}$  is typically 10-60 ng/mL.

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

TRAIL is a type II transmembrane protein belonging to the TNF superfamily and is now designated TNFSF10. TRAIL is active as a homotrimer and is produced by a variety of cell types in both the membrane bound form and also as a soluble molecule. It binds to any of the four TRAIL receptors as well as to Osteoprotegerin.