

DESCRIPTION

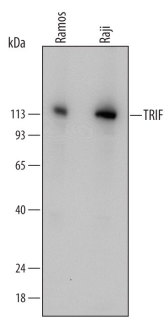
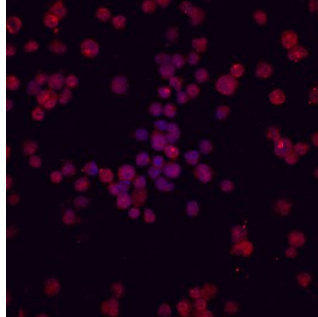
Species Reactivity	Human
Specificity	Detects human TRIF/TICAM1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TRIF/TICAM1 Lys29-Ala204 Accession # Q8IUC6
Formulation	Lyophilized from a 0.2 µm filtered solution in 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

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
Western Blot	0.25 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human TRIF/TICAM1 by Western Blot. Western blot shows lysates of Ramos human Burkitt's lymphoma cell line and Raji human Burkitt's lymphoma cell line. PVDF Membrane was probed with 0.25 µg/mL of Human TRIF/TICAM1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6216) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for TRIF/TICAM1 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.</p>	<p>Immunocytochemistry</p>  <p>TRIF/TICAM1 in Raji Human Cell Line. TRIF/TICAM1 was detected in immersion fixed Raji human Burkitt's lymphoma cell line using Human TRIF/TICAM1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6216) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TRIF (TIR domain-containing adaptor inducing IFN-β; also TICAM1) is a 105-110 kDa cytoplasmic adaptor molecule that mediates Toll receptor signaling. It is widely expressed and associates with both TLR3 and TLR4. Relative to TLR3, TRIF appears to activate IRF 3, -4, and -7, as well as NFκB and FADD. Its action on FADD is through RIP1, and this induces apoptosis. Human TRIF is 712 amino acids (aa) in length and contains three TRAF6 bonding motifs (aa 84-91, 248-255 and 299-309), one TIR domain (aa 390-460), a Pro-rich region (aa 614-678), and an overlapping RHIM domain (aa 661-699). The molecule is reported to form a homodimer. There are multiple potential isoform variants. One shows a 23 aa substitution for aa 31-162 accompanied by a Pro substitution for aa 633-660, a second shows a 44 aa substitution for aa 352-712, and a third shows a 38 aa substitution for aa 271-712. Over aa 29-204, human TRIF shares 62% aa identity with mouse TRIF.