Human TRIM Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4708

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRIM in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human TRIM Thr50-Asn186 Accession # Q6PIZ9
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

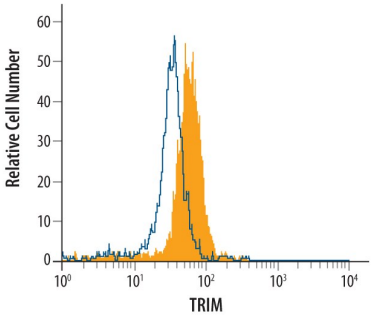
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below
Simple Western	20 µg/mL	Jurkat human acute T cell leukemia cell line
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

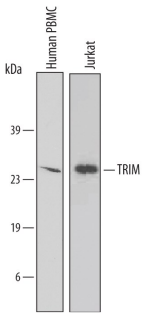
DATA

Intracellular Staining by Flow Cytometry



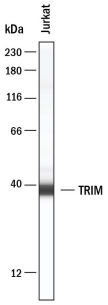
Detection of TRIM in Human CD3$^+$T cells by Flow Cytometry. Human CD3$^+$T cells from peripheral blood mononuclear cells were stained with Goat Anti-Human TRIM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4708, filled histogram) or isotype control antibody Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Western Blot



Detection of Human TRIM by Western Blot. Western blot shows lysates of human peripheral blood mononuclear cells and Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TRIM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4708) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody Catalog # HAF019). A specific band was detected for TRIM at approximately 27 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Simple Western



Detection of Human TRIM by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for TRIM at approximately 38 kDa (as indicated) using 20 µg/mL of Goat Anti-Human TRIM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4708) . This experiment was conducted under reducing conditions and using the 12-230kDa separation system.

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Human TRIM Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4708

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.** • 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

Human TRIM (T cell receptor–interacting molecule) (also trat1; T cell receptor-associated transmembrane adaptor 1, and pp29/30) is a 27-30 kDa, type III transmembrane protein, that is a member of the transmembrane adaptor protein (TRAP) family. It contains a short, 8 amino acid (aa) extracellular region, a 19 aa transmembrane region, and a 159 aa cytosolic tail. Its cytoplasmic tail contains several tyrosine motifs with the potential to bind to Src-homology 2 (SH2) domains of signaling proteins. TRIM is present in T cells and NK cells. Human TRIM shares 66% aa sequence identity with mouse TRIM.

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