

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRIM38 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TRIM38 Leu190-Ile414 Accession # O00635
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.

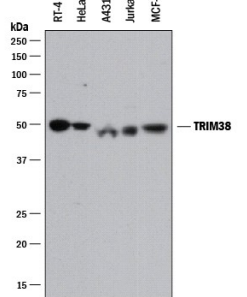
APPLICATIONS

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	2 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

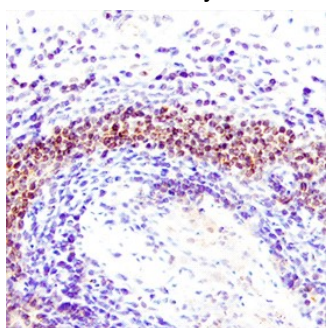
DATA

Western Blot



Detection of Human TRIM38 by Western Blot. Western blot shows lysates of RT-4 human bladder carcinoma cell line, HeLa human cervical epithelial carcinoma cell line, A431 human epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 2 µg/mL of Goat Anti-Human TRIM38 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF9104) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for TRIM38 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



TRIM38 in Human Lymph Node. TRIM38 was detected in immersion fixed paraffin-embedded sections of human lymph node using Goat Anti-Human TRIM38 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF9104) at 10 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 cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

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

Human Tripartite Motif 38 (TRIM38, RNF15) is a 465 aminoacids E3 ubiquitin ligase that plays a key role in tuning TLR-mediated immune responses by selectively targeting molecules in the TLR signaling for proteasomal degradation. The TRIM family of E3 ligases has more than 70 members in humans. Many members of this protein family are important immune regulators, mediating innate immune cell signal transduction and subsequent cytokine induction immune regulation. Trim38 deficiency, for example, greatly increases TLR3- and TLR4-mediated induction of type I Interferons and proinflammatory cytokines, such as TNF-α, IL-1β, and IL-6, in immune cells and *in vivo*.