Human LITAF Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4695

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LITAF in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human LITAF Met1-Ala111 Accession # Q99732
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.

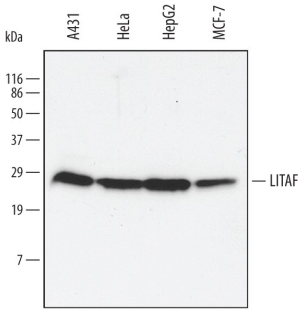
APPLICATIONS

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
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	1-15 µg/mL	See Below

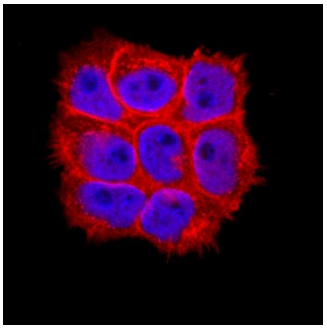
DATA

Western Blot



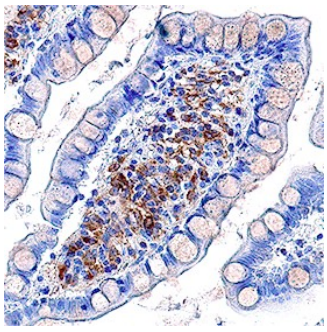
Detection of Human LITAF by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, HeLa human cervical epithelial carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human LITAF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4695) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for LITAF at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



LITAF in A431 Human Cell Line. LITAF was detected in immersion fixed A431 human epithelial carcinoma cell line using Goat Anti-Human LITAF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4695) 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 cell surfaces. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



LITAF in Human Small Intestine. LITAF was detected in immersion fixed paraffin-embedded sections of human small intestine using Goat Anti-Human LITAF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4695) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of lymphocytes in lamina propria in intestinal villi. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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.

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BACKGROUND

LITAF (LPS-induced TNF-α factor), initially identified through its interaction with the TNF-α promoter, is a transcription factor that contributes to the regulation of several inflammatory cytokines in response to LPS or p53 stimulation. LITAF interacts directly with LPS-induced STAT6(B) in the cytoplasm, this complex then translocates into the nucleus, where it significantly up-regulates the transcription of other inflammatory mediators such as, GRO, IL-1α, TNF-α, MCP-2 and IFN-γ. Phosphorylation of LITAF by p38α via the TLR pathway is also required for nuclear translocation. Mutations in LITAF have been associated with CMT1C (Charcot-Marie-Tooth neuropathy type 1C) an autosomal dominant demyelinating form of peripheral neuropathy.

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