

# LITAF (FL-161): sc-66945

## BACKGROUND

Lipopolysaccharide (LPS) is a potent stimulator of monocytes and macrophages, causing secretion of tumor necrosis factor  $\alpha$  (TNF $\alpha$ ) and other inflammatory mediators. The inflammatory response to bacteria and bacterial products, such as LPS, is mediated by a variety of secreted factors, but cytotoxic effects of LPS have been ascribed to TNF $\alpha$  activity. LITAF (LPS-induced TNF $\alpha$  factor), Stat6B and the LITAF-Stat6B complex all play a role in the regulation of inflammatory cytokines in response to LPS or p53 stimulation in mammalian cells. LITAF is a nuclear protein crucial in TNF $\alpha$  gene transcription regulation. High levels of expression of LITAF mRNA have been observed predominantly in the placenta, peripheral blood leukocytes, lymph nodes and spleen.

## CHROMOSOMAL LOCATION

Genetic locus: LITAF (human) mapping to 16p13.13; Litaf (mouse) mapping to 16 A1.

## SOURCE

LITAF (FL-161) is a rabbit polyclonal antibody raised against amino acids 1-161 representing full length LITAF of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

LITAF (FL-161) is recommended for detection of LITAF of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LITAF (FL-161) is also recommended for detection of LITAF in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for LITAF siRNA (h): sc-45684, LITAF siRNA (m): sc-45685, LITAF shRNA Plasmid (h): sc-45684-SH, LITAF shRNA Plasmid (m): sc-45685-SH, LITAF shRNA (h) Lentiviral Particles: sc-45684-V and LITAF shRNA (m) Lentiviral Particles: sc-45685-V.

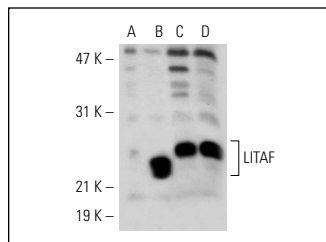
Molecular Weight of LITAF: 24 kDa.

Positive Controls: LITAF (m): 293 Lysate: sc-110752, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

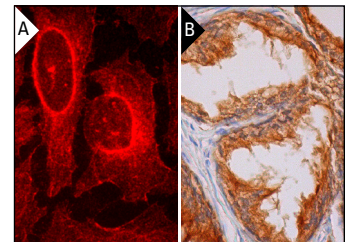
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



LITAF (FL-161): sc-66945. Western blot analysis of LITAF expression in non-transfected 293: sc-110760 (A), mouse LITAF transfected 293: sc-110752 (B), HeLa (C) and Hep G2 (D) whole cell lysates.



LITAF (FL-161): sc-66945. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and membrane localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human prostate tissue showing cytoplasmic staining of glandular cells (B).

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **LITAF (C-5): sc-166719** or **LITAF (D-5): sc-166546**, our highly recommended monoclonal alternatives to LITAF (FL-161).