

## LTA Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8509c

### Specification

# LTA Antibody (Center) - Product Information

Application Primary Accession Reactivity	FC, IHC-P, WB,E <u>P01374</u> Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22297
Antigen Region	46-72

## LTA Antibody (Center) - Additional Information

#### Gene ID 4049

**Other Names** 

Lymphotoxin-alpha, LT-alpha, TNF-beta, Tumor necrosis factor ligand superfamily member 1, LTA, TNFB, TNFSF1

#### Target/Specificity

This LTA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 46-72 amino acids from the Central region of human LTA.

**Dilution** FC~~1:10~50 IHC-P~~1:50~100 WB~~1:1000 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

LTA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## LTA Antibody (Center) - Protein Information

Name LTA



## Synonyms TNFB, TNFSF1

**Function** Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFBR and TNFRSF14/HVEM (PubMed:<u>9462508</u>). In its heterotrimeric form with LTB binds to TNFRSF3/LTBR (PubMed:<u>24248355</u>). Lymphotoxin is produced by lymphocytes and is cytotoxic for a wide range of tumor cells in vitro and in vivo.

**Cellular Location** Secreted. Membrane. Note=The homotrimer is secreted. The heterotrimer is membrane-associated

## LTA Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- LTA Antibody (Center) Images



Western blot analysis of LTA Antibody (Center) (Cat. #AP8509c) in MDA-MB231 cell line lysates (35ug/lane). LTA (arrow) was detected using the purified Pab.





Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with LTA Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of HepG2 cells using LTA Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## LTA Antibody (Center) - Background

LTA, a member of the tumor necrosis factor family, is a cytokine produced by lymphocytes. The protein is highly inducible, secreted, and forms heterotrimers with lymphotoxin-beta which anchor lymphotoxin-alpha to the cell surface. This protein also mediates a large variety of inflammatory, immunostimulatory, and antiviral responses, is involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis.

## LTA Antibody (Center) - References

Buonaguro,L., et.al., J. Virol. 66 (12), 7159-7167 (1992) Fukushima,K., et.al., Arch. Biochem. Biophys. 304 (1), 144-153 (1993)