

**Anti-TNF Beta Antibody**  
Catalog # ABO10684**Specification**

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**Anti-TNF Beta Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P01374</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Lymphotoxin-alpha(LTA) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-TNF Beta Antibody - Additional Information**

**Gene ID** 4049

**Other Names**

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

**Calculated MW**

22297 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted. Membrane. The homotrimer is secreted. The heterotrimer is membrane-associated.

**Protein Name**

Lymphotoxin-alpha(LT-alpha)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human TNF beta(73-88aa KQNSLLWRANTDRAFL), different from the related mouse sequence by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the tumor necrosis factor family.

**Anti-TNF Beta Antibody - Protein Information**

**Name** LTA

**Synonyms** TNFB, TNFSF1

**Function**

Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR2 and TNFRSF14/HVEM (PubMed: [9462508](http://www.uniprot.org/citations/9462508)). In its heterotrimeric form with LTB binds to TNFRSF3/LTBR (PubMed: [24248355](http://www.uniprot.org/citations/24248355)). Lymphotoxin is produced by lymphocytes and is cytotoxic for a wide range of tumor cells in vitro and in vivo.

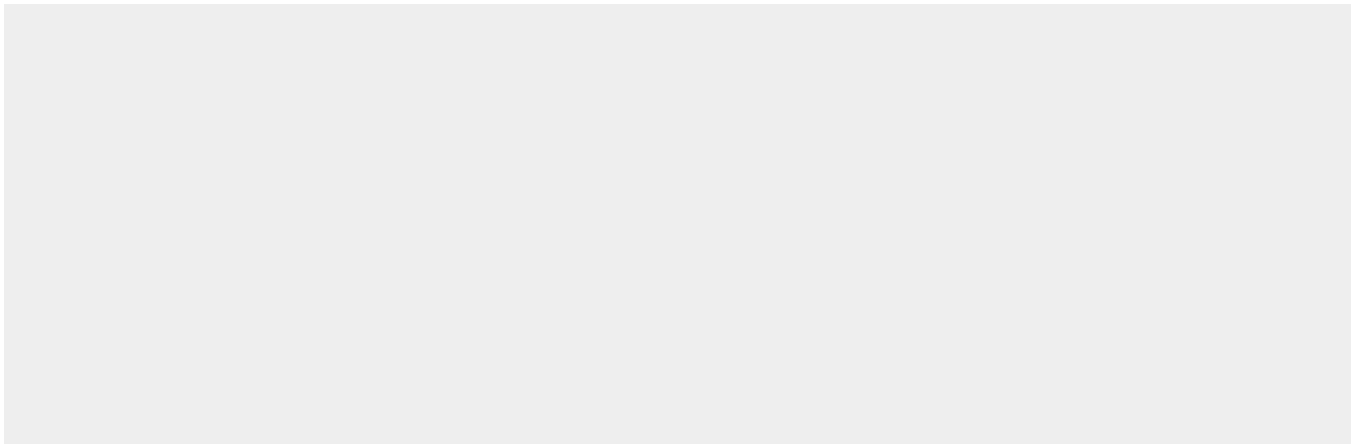
**Cellular Location**

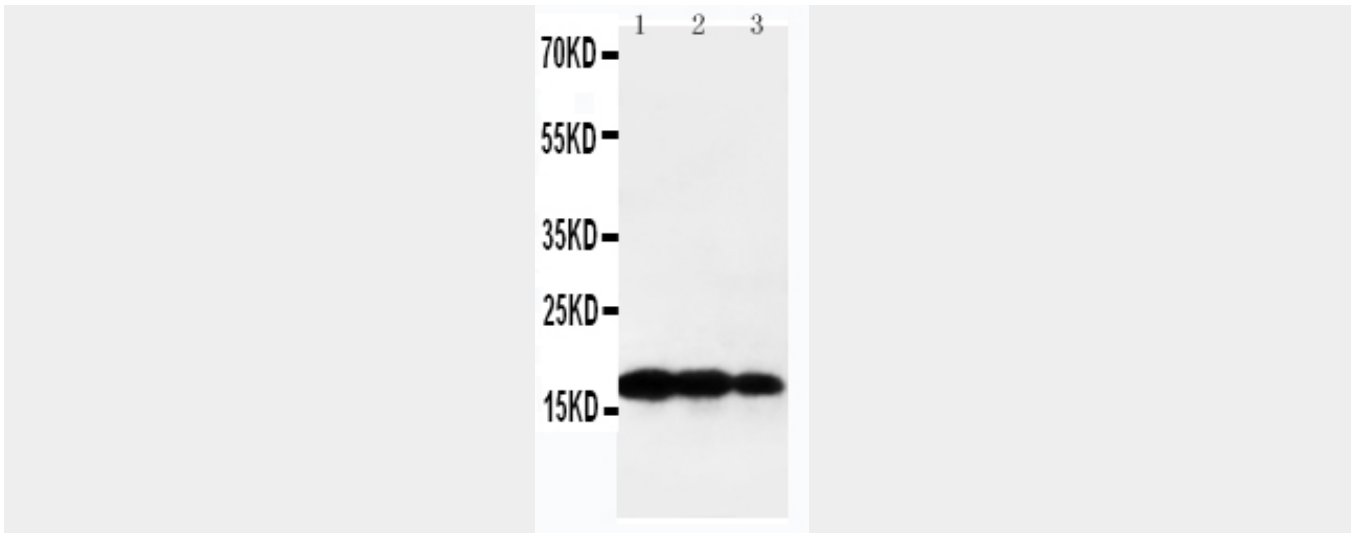
Secreted. Membrane. Note=The homotrimer is secreted. The heterotrimer is membrane-associated

**Anti-TNF Beta Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-TNF Beta Antibody - Images**



Anti-TNF beta antibody, ABO10684, Western blotting  
Lane 1: Recombinant Human TNF beta Protein 10ng  
Lane 2: Recombinant Human TNF beta Protein 5ng  
Lane 3: Recombinant Human TNF beta Protein 2.5ng

#### **Anti-TNF Beta Antibody - Background**

Lymphotoxin (previously known as tumor necrosis factor-beta) is a lymphokine cytokine. It is a protein that is produced by Th1 type T-cells and induces vascular endothelial cells to change their surface adhesion molecules to allow phagocytic cells to bind to them. Lymphotoxin is homologous to Tumor Necrosis Factor beta, but secreted by T-cells. It is paracrine due to the small amounts produced. The effects are similar to TNF-alpha, but TNF-beta is also important for the development of lymphoid organs. Nedwin et al. (1985) found that TNFA and TNFB are closely linked on chromosome 6. Study of hybrid cells made with rearranged human chromosome 6 showed that both TNFA and TNFB map to the 6p23-q12 segment.