10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LTB Antibody (C-term)
Mouse Monoclonal Antibody (Mab)
Catalog # AM2016b

Specification

LTB Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q06643
Other Accession	Q9TSV8, NP_002332.1, NP_033666.1
Reactivity	**Human**
Predicted	**Pig**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM**
Calculated MW	**25390**
Antigen Region	**199-227**

LTB Antibody (C-term) - Additional Information

Gene ID 4050

Other Names
Lymphotoxin-beta, LT-beta, Tumor necrosis factor C, TNF-C, Tumor necrosis factor ligand superfamily member 3, LTB, TNFC, TNFSF3

Target/Specificity
This LTB antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 199-227 amino acids from the C-terminal region of human LTB.

Dilution
WB~~1:500~1000

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

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
LTB Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LTB Antibody (C-term) - Protein Information

Name LTB

Synonyms TNFC, TNFSF3

Function Cytokine that binds to LTBR/TNFRSF3. May play a specific role in immune response regulation. Provides the membrane anchor for the attachment of the heterotrimeric complex to the cell surface. Isoform 2 is probably non-functional.

Cellular Location
Membrane; Single-pass type II membrane protein

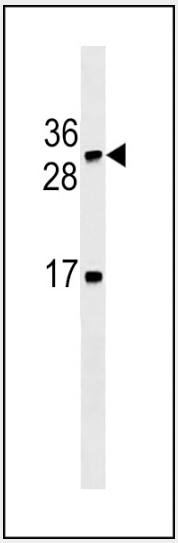
Tissue Location
Spleen and thymus.

LTB Antibody (C-term) - 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
- Cell Culture

LTB Antibody (C-term) - Images



LTB Antibody (C-term) (Cat. #AM2016b) western blot analysis in HL-60 cell line lysates (35µg/lane).This demonstrates the LTB antibody detected the LTB protein (arrow).

LTB Antibody (C-term) - Background

Lymphotoxin beta is a type II membrane protein of the TNF family. It anchors lymphotoxin-alpha to the cell surface through heterotrimer formation. The predominant form on the lymphocyte surface is the lymphotoxin-alpha 1/beta 2 complex (e.g. 1 molecule alpha/2 molecules beta) and this complex is the primary ligand for

the lymphotoxin-beta receptor. The minor complex is lymphotoxin-alpha 2/beta 1. LTB is an inducer of the inflammatory response system and involved in normal development of lymphoid tissue. Lymphotoxin-beta isoform b is unable to complex with lymphotoxin-alpha suggesting a function for lymphotoxin-beta which is independent of lympyhotoxin-alpha. Alternative splicing results in multiple transcript variants encoding different isoforms.

LTB Antibody (C-term) - References

Clancy, R.M., et al. Arthritis Rheum. 62(11):3415-3424(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Young, J., et al. Cytokine 51(1):78-86(2010)
McGeachie, M., et al. Circulation 120(24):2448-2454(2009)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)