Product datasheet

Anti-Lymphotoxin Alpha + Beta antibody [MM0460-12B4] ab89566

Overview

Product name
Anti-Lymphotoxin Alpha + Beta antibody [MM0460-12B4]

Description
Mouse monoclonal [MM0460-12B4] to Lymphotoxin Alpha + Beta

Host species
Mouse

Specificity
ab89566 detects Lymphotoxin Alpha and Beta.

Tested applications
Suitable for: Flow Cyt, Neutralising

Species reactivity
Reacts with: Human

Immunogen
Recombinant full length Human Lymphotoxin Alpha + Beta.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer
Constituent: PBS

Purity
Protein G purified

Purification notes
The IgG fraction of culture supernatant was purified by Protein G affinity chromatography and 0.2 µm filtered.

Clonality
Monoclonal

Clone number
MM0460-12B4

Isotype
IgG1

Applications

Our Abpromise guarantee covers the use of ab89566 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
</table>

1
Lymphotoxin Alpha, which is a member of the TNF family, is a cytokine produced by lymphocytes. The protein is highly inducible, secreted, and forms heterotrimers with Lymphotoxin Beta which anchors Lymphotoxin Alpha to the cell surface. This protein is also involved in the formation of secondary lymphoid organs during development, mediates a variety of inflammatory, immunostimulatory, and antiviral responses, and plays a role in apoptosis. Genetic variations in this gene are associated with susceptibility to leprosy type 4 and psoriatic arthritis. 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), which is the primary ligand for the Lymphotoxin Beta receptor. The minor complex is Lymphotoxin Alpha 2/Beta 1. Lymphotoxin Beta 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 Lymphotoxin Alpha. Alternative splicing results in multiple transcript variants encoding different isoforms.

**Target**

**Relevance**

Lymphotoxin Alpha, which is a member of the TNF family, is a cytokine produced by lymphocytes. The protein is highly inducible, secreted, and forms heterotrimers with Lymphotoxin Beta which anchors Lymphotoxin Alpha to the cell surface. This protein is also involved in the formation of secondary lymphoid organs during development, mediates a variety of inflammatory, immunostimulatory, and antiviral responses, and plays a role in apoptosis. Genetic variations in this gene are associated with susceptibility to leprosy type 4 and psoriatic arthritis. 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), which is the primary ligand for the Lymphotoxin Beta receptor. The minor complex is Lymphotoxin Alpha 2/Beta 1. Lymphotoxin Beta 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 Lymphotoxin Alpha. Alternative splicing results in multiple transcript variants encoding different isoforms.

**Cellular localization**

Lymphotoxin Alpha: Cell Membrane and Secreted. Note: The homotrimer is secreted. The heterotrimer is membrane associated. Lymphotoxin Beta: Membrane; Single pass type II membrane protein.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>Neutralising</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>
Flow Cytometry - Anti-Lymphotoxin Alpha + Beta antibody [MM0460-12B4] (ab89566) staining Lymphotoxin Alpha + Beta in PBMC, T cell progenitors by Flow Cytometry. The sample was incubated with the primary antibody (1/50 in 1X PBS) for 15 minutes at 4°C. A Alexa Fluor®-conjugated donkey anti-mouse IgG (1/20) was used as the secondary antibody.

Gating Strategy: CD7+ cells.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors