

Product Datasheet

Lymphotoxin-alpha/TNF-beta Antibody (3F12.2D3) - Azide and BSA Free NBP2-81106-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-81106-0.2mg

Lymphotoxin-alpha/TNF-beta Antibody (3F12.2D3) - Azide and BSA Free

| Product Information | |
|-----------------------------|--|
| Unit Size | 0.2 mg |
| Concentration | 1 mg/ml |
| Storage | Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C. |
| Clonality | Monoclonal |
| Clone | 3F12.2D3 |
| Preservative | 0.02% Proclin 300 |
| Isotype | IgG2b Kappa |
| Purity | Protein A purified |
| Buffer | PBS |
| Product Description | |
| Host | Mouse |
| Gene ID | 4049 |
| Gene Symbol | LTA |
| Species | Human |
| Specificity/Sensitivity | 3F12 binds to human LTalpha3 and LT-alpha-beta (with a KD of ~0.3 nM, determined by BIAcore; ~ 37 pM, determined by ELISA) in both its soluble homotrimeric and membrane heterotrimeric forms. LTalpha belongs to the tumor necrosis factor (TNF) superfamily and is secreted as a homo-trimer (LTalpha3), or is expressed on the cell surface in complex with LTbeta. Lymphotoxin is produced by lymphocytes and in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR2 and TNFRSF14/HVEM. LTalpha3 signaling induces target cells to upregulate many chemokines and cytokines in an NFkB-dependent manner. |
| Immunogen | 3F12 was prepared by hyperimmunizing BALB/c mice with purified recombinant human LTalpha expressed in E. coli - the hybridoma clone was selected for its ability to bind LTalpha3 by ELISA. The CDRs of the antibody were grafted to the framework regions of the mouse mAb 2G7 to create the chimeric version of the antibody. |
| Product Application Details | |
| Applications | ELISA, Flow Cytometry, Neutralization, Surface Plasmon Resonance |
| Recommended Dilutions | Flow Cytometry, ELISA, Surface Plasmon Resonance, Neutralization |
| Application Notes | The properties of the chimeric 3F12 is equivalent to that of the original 3F12 mAb. 3F12 is able to bind to Th2 cells and additionally is can functionally block human LTalpha3 versus an isotype control (trastuzumab) - LTalpha3-induced ICAM upregulation is blocked on HUVEC (Human Umbilical Endothelial Cells) (IC50 0.04 nM) and LTalpha3-induced IL-8 is blocked in A549 cells. The antibody has also been used in ELISA studies to detect LT-alpha and to measure binding. |



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Products Related to NBP2-81106-0.2mg

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43317-0.5mg | Mouse IgG2b Kappa Light Chain Isotype Control (MG2b) |
| NBP2-61307-10ug | Recombinant Human Lymphotoxin-alpha/TNF-beta Protein |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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