

# Product Datasheet

## Lymphotoxin-alpha/TNF-beta Antibody (3F12.2D3) [Allophycocyanin] NBP2-81106APC

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-81106APC**

Lymphotoxin-alpha/TNF-beta Antibody (3F12.2D3) [Allophycocyanin]

| <b>Product Information</b>         |   |
|------------------------------------|---|
| <b>Unit Size</b>                   | 0.1 ml  |
| <b>Concentration</b>               | Please see the vial label for concentration. If unlisted please contact technical services.   |
| <b>Storage</b>                     | Store at 4C in the dark.  |
| <b>Clonality</b>                   | Monoclonal  |
| <b>Clone</b>                       | 3F12.2D3  |
| <b>Preservative</b>                | 0.05% Sodium Azide  |
| <b>Isotype</b>                     | IgG2b Kappa   |
| <b>Conjugate</b>                   | Allophycocyanin   |
| <b>Purity</b>                      | Protein A purified  |
| <b>Buffer</b>                      | PBS   |
| <b>Product Description</b>         |   |
| <b>Host</b>                        | Mouse   |
| <b>Gene ID</b>                     | 4049  |
| <b>Gene Symbol</b>                 | LTA   |
| <b>Species</b>                     | Human   |
| <b>Specificity/Sensitivity</b>     | 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/TNFBFR and TNFRSF14/HVEM. LTalpha3 signaling induces target cells to upregulate many chemokines and cytokines in an NFkB-dependent manner. |
| <b>Immunogen</b>                   | 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 mice mAb 2G7 to create the chimeric version of the antibody.  |
| <b>Product Application Details</b> |   |
| <b>Applications</b>                | ELISA, Flow Cytometry, Neutralization, Surface Plasmon Resonance  |
| <b>Recommended Dilutions</b>       | Flow Cytometry, ELISA, Surface Plasmon Resonance, Neutralization  |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.  |





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-81106APC**

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|                               |  |
|-------------------------------|--|
| NBP1-43317APC                 | Mouse IgG2b Kappa Light Chain Isotype Control (MG2b) [Allophycocyanin]           |
| NBP2-61307-10ug<br>210-TA-005 | Recombinant Human Lymphotoxin-alpha/TNF-beta Protein<br>TNF-alpha [Unconjugated] |
| 211-TBB-010/CF                | Lymphotoxin-alpha/TNF-beta [Unconjugated]  |

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### **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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