

# Product Datasheet

## Lymphotoxin-alpha/TNF-beta Antibody (3F12.2D3) [Janelia Fluor® 646] NBP2-81105JF646

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-81105JF646**

Lymphotoxin-alpha/TNF-beta Antibody (3F12.2D3) [Janelia Fluor® 646]

<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>	IgG Kappa
<b>Conjugate</b>	Janelia Fluor 646
<b>Purity</b>	Protein A purified
<b>Buffer</b>	50mM Sodium Borate
<b>Product Description</b>	
<b>Host</b>	Rabbit
<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/TNFB2 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>Notes</b>	Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Neutralization, Surface Plasmon Resonance
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, ELISA, Surface Plasmon Resonance, Neutralization
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.





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### **Products Related to NBP2-81105JF646**

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NBP2-61307-10ug	Recombinant Human Lymphotoxin-alpha/TNF-beta Protein
210-TA-005	TNF-alpha [Unconjugated]
211-TBB-010/CF	Lymphotoxin-alpha/TNF-beta [Unconjugated]
D6050	IL-6 [HRP]

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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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