

Product datasheet for **TA386109**

LTA Mouse Monoclonal Antibody [Clone ID: 3F12.2D3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3F12.2D3
Applications:	ELISA, FC, Neutralize
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
Immunogen:	3F12 was prepared by hyperimmunizing BALB/c mice with purified recombinant human LT α expressed in E. coli - the hybridoma clone was selected for its ability to bind LT α 3 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.
Specificity:	<p>3F12 binds to human LTα3 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. LTα belongs to the tumor necrosis factor (TNF) superfamily and is secreted as a homotrimer (LTα3), or is expressed on the cell surface in complex with LTβ. Lymphotoxin is produced by lymphocytes and in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR2 and TNFRSF14/HVEM. LTα3 signaling induces target cells to upregulate many chemokines and cytokines in an NFκB-dependent manner.</p> <p>The properties of the chimieric 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 LTα3 versus an isotype control (trastuzumab) - LTα3-induced ICAM upregulation is blocked on HUVEC (Human Umbilical Endothelial Cells) (IC50 0.04 nM) and LTα3-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.</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.



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Stability: 3 years from dispatch.

Gene Name: lymphotoxin alpha

Database Link: [Entrez Gene 4049 Human P01374](#)

Synonyms: LT; LT-alpha; OTTHUMP00000165897; TNF-beta; TNFB; TNFSF1