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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Lymphotoxin alpha [MLTA3698A (Pateclizumab)] Standard Size Ab00773-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: MLTA3698A (Pateclizumab)

Alternative Name(s) of Target: LTα; LT-alpha; TNF-beta; Tumor necrosis factor ligand superfamily member 1

UniProt Accession Number of Target Protein: P01374

Published Application(s): deplete, SPR, Block, FC

Published Species Reactivity: Human

Immunogen: This humanized antibody was derived from a mouse anti-human LT-α hybridoma mAb.

Specificity: This antibody is specific for lymphotoxin-alpha, and is able to bind both the soluble LTα3 homotrimeric form and the cell-surface LTα1β2 heterotrimer, which is transiently expressed on activated B and T cells (Th1, Th17).

Application Notes: This antibody has been shown to be able to both block LTα-mediated signaling and selectively deplete LTα-expressing activated T and B cells, which has therapeutic applications in abrogating proinflammatory responses in rheumatoid arthritis (RA) pathology (Kennedy, 2014). Preliminary clinical trials demonstrated that administration of this antibody decreased serum levels of CXCL13, a biomarker of RA disease activity (Emu, 2012). In a phase II trial, this antibody had a trend for clinical effects on the symptoms of RA after 3 months of treatment, but the differences from placebo responses were not statistically significant (Kennedy, 2014). In a human peripheral blood mononuclear cell transplanted SCID mouse model of graft-versus-host disease, this antibody specifically depleted activated LTα-expressing human donor T and B cells, prolonging survival of the mice (Chiang, 2012). Finally, this antibody has been used to in FC and surface plasmon resonance analysis to characterise its interaction with the LTα ligand.

Antibody First Published in: Chiang et al. In Vivo Depletion of Lymphotoxin-Alpha Expressing Lymphocytes Inhibits Xenogeneic Graft-versus-Host-Disease PLoS ONE, 2012, Vol.7(3), p.e33106

[PMID:22427961](#)

Note on publication: Describes the generation of this antibody and its use in prolonging survival in a mouse model of GVHD.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

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

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.