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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Integrin alpha-4/beta-7 [Vedolizumab (LDP-02)] Standard Size Ab04181-3.3

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

This is a reformatted mouse IgG2b Fc Silent™ antibody, based on the original mouse IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2b, Fc Silent™, Kappa

Clone Number: Vedolizumab (LDP-02)

Alternative Name(s) of Target: Integrin $\alpha 4\beta 7$; CD49D; ITGA4:ITGB7; Peyer patches-specific homing receptor LPAM-1; ITGA4; Integrin alpha-4; CD49 antigen-like family member D; Integrin alpha-IV; VLA-4 subunit alpha; ITGB7; Integrin beta-7; Gut homing receptor beta subunit; ACT-1; LDP02; MLN-02; MLN0002; MLN02; ENTYVIO

UniProt Accession Number of Target Protein: P26010; P13612

Published Application(s): therapeutic, FC

Published Species Reactivity: Human

Immunogen: This humanized antibody is derived from parental mouse antibody ACT-1 and was generated by grafting the CDRs of the mouse antibody onto human framework regions.

Specificity: This antibody is specific for human $\alpha 4\beta 7$ integrin and does not cross react with $\alpha 4\beta 1$ and $\alpha E\beta 7$ integrins. This antibody does not bind majority of memory CD4(+) T lymphocytes (60%), neutrophils, and most monocytes. It binds to a subset (approximately 25%) of human peripheral blood memory CD4(+) T lymphocytes that include gut-homing interleukin 17 T-helper lymphocytes. It also binds to eosinophils at high levels, and to naive T-helper lymphocytes, naive and memory cytotoxic T lymphocytes, B lymphocytes, natural killer cells, and basophils at lower levels

Application Notes: The binding characterization of this antibody for human alpha 4 beta 7 integrin was done using flow cytometry on Hut-78 cells (US7147851B1). In a double-blind, placebo-controlled trial this antibody was more effective than placebo for the induction of clinical and endoscopic remission in patients with active ulcerative colitis (PMID: 15958805). In a phase II clinical trial, it was reported that this antibody is well tolerated in patients with active Crohn's disease and therapy with this antibody had a dose-dependent beneficial effect on clinical remission (PMID: 18829392). This antibody exclusively binds alpha4 beta7 integrin and modulates inflammation in the gastrointestinal tract without inducing the systemic

immunosuppression. This antibody binds memory CD4(+) T and B lymphocytes with sub nanomolar potency ($EC_{50} = 0.3-0.4$ nM). This antibody inhibits adhesion of alpha(4)beta(7)-expressing cells to mucosal addressing cell adhesion molecule 1 (median inhibition concentration [IC_{50}] = 0.02-0.06 microg/ml) and fibronectin ($IC_{50} = 0.02$ microg/ml), but not vascular cell adhesion molecule 1. The pharmacologic properties of vedolizumab, in conjunction with the gastrointestinal tropism of alpha(4)beta(7) integrin function, make it a suitable for treatment of patients with inflammatory bowel diseases (PMID: 19509315).

Antibody First Published in: Feagan et al. Treatment of ulcerative colitis with a humanized antibody to the alpha4beta7 integrin. N Engl J Med. 2005 Jun 16;352(24):2499-507. [PMID:15958805](https://pubmed.ncbi.nlm.nih.gov/15958805/)

Note on publication: This study reports the results of treatment with MLN02, a humanized antibody to the alpha4beta7 integrin, in patients with active ulcerative colitis.

Product Form

Size: 100 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.