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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CD127 [1A11 H3L4] Standard Size Ab03376-10.3

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: 1A11 H3L4

Alternative Name(s) of Target: IL7R; IL-7RA; CDw127; Interleukin-7 receptor subunit alpha; IL-7 receptor subunit alpha; IL-7R subunit alpha; IL-7R-alpha; GSK2618960

UniProt Accession Number of Target Protein: P16871

Published Application(s): immunotherapy, inhibit, ELISA

Published Species Reactivity: Marmoset, Human, Cynomolgus Monkey

Immunogen: The original parental mouse antibody 1A11 was generated by immunizing C57BL/6 mice with a synthetic peptide (300 µg) of myelin oligodendrocyte glycoprotein (MOG residues 35-55). This antibody is a humanized and affinity matured version of 1A11.

Specificity: This antibody binds the alpha component of the human IL-7RA (CD127). This antibody also cross reacts with cynomolgus monkey and marmoset IL-7Ra. This protein acts as a receptor for interleukin-7. Also acts as a receptor for thymic stromal lymphopoietin (TSLP). Binding of IL-7 to the IL-7R activates multiple signaling pathways including the activation of JAK kinases 1 and 3 leading to the phosphorylation and activation of Stat5. Another IL-7R mediated pathway is the activation of PI3 kinase, resulting in the phosphorylation of the pro-apoptotic protein Bad and its cytoplasm retention. CD127 is expressed in peripheral resting and memory T cells.

Application Notes: The binding affinity of this antibody for human interleukin 7 receptor was determined using BIACORE analysis and was reported to be $K_d = 22$ pM. This antibody demonstrated complement dependent cytotoxicity on HEK293 cells expressing hIL-7R in vitro. This antibody showed inhibition of IL-7-induced STAT5 phosphorylation in human polymorphonuclear monocytes and IL-17 production in differentiated human Th17 cells in an in vitro assay (US9150653). The safety, pharmacokinetics, target engagement, pharmacodynamics and immunogenicity of this antibody was studied in healthy subjects. Single doses of this antibody (0.6 mg kg⁻¹ or 2.0 mg kg⁻¹) were well tolerated, increased circulating IL-7 and soluble CD127, and elicited antidrug antibodies with neutralizing capability, but did not have an impact on lymphocyte populations, inflammatory cytokines or differentiation markers. It blocked IL-7 receptor signaling upon full target engagement. This antibody may effectively modulate the autoinflammatory activity of pathogenic T cells in diseased tissue (PMID: 30161291). The characterization of humoral response generated after administration of this antibody was studied in a single-dose escalation phase I

study (PMID: 33755713).

Antibody First Published in: Ellis et al. Anti-IL-7 receptor α monoclonal antibody (GSK2618960) in healthy subjects - a randomized, double-blind, placebo-controlled study. Br J Clin Pharmacol. 2019 Feb;85(2):304-315. [PMID:30161291](#)

Note on publication: This paper investigates the safety, pharmacokinetics, pharmacodynamics and immunogenicity of this antibody.

Product Form

Size: 200 μ g 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.