



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Anti-CD127 [1A11 H3L4] Standard Size Ab03376-10.0

**Isotype and Format:** Human IgG1, 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 antibody1A11 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<sup>-1</sup> or 2.0 mg kg<sup>-1</sup>) 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  $\alpha$  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 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.