



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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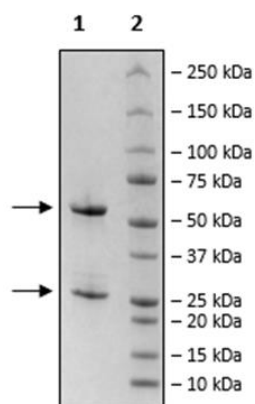


Product Information

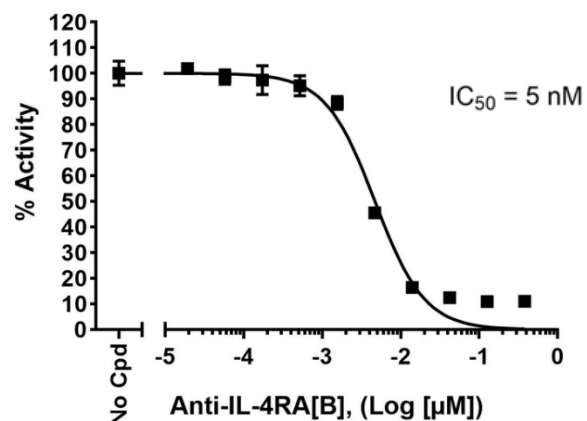
Description:	Recombinant anti-IL-4Ra (interleukin 4 receptor subunit alpha) antibody recognizing human IL-4Ra protein, also known as CD124 (cluster of differentiation 124). This anti-IL-4Ra antibody is a purified, human recombinant monoclonal antibody, which contains an Avi-Tag™ and is biotinylated at the C-terminus of the heavy chain unit. This antibody has been tested in a binding assay. It is similar to Dupilumab.
Background:	Interleukin-4 (IL-4) is produced mainly by a subpopulation of activated T cells (Th2) that are the biologically most active helper cells for B cells and also secrete interleukin-5 (IL-5) and interleukin-6 (IL-6). The biological activities of IL-4 are mediated by a specific receptor. The extracellular domain of the IL-4 receptor is related to the receptors for EPO (erythropoietin), IL-6, and the beta chain of the IL-2 receptor (CD122). There are two types of receptors for IL-4. Type 1 receptor is a heterodimer consisting of IL-4Ralpha (IL-4Rα) and IL-4Rgamma (IL-4Rγ), mostly present on hematopoietic cells. The type 2 receptor is a heterodimer consisting of IL-4Ralpha and IL-13Ralpha1 (IL-13Rα1). IL-4 enhances the expression of MHC-2 (major histocompatibility class 2) antigens on B cells. It can promote their capacity to respond to other B cell stimuli and to present antigens for T cells. Pretreatment of macrophages with IL-4 prevents the production of IL-1, TNFα (tumor necrosis factor alpha), and prostaglandins in response to activation by bacterial endotoxins or IFN-γ (interferon gamma). IL-4 plays crucial roles in inflammation, fibrosis, allergic reactions, and cancer. The therapeutic exploitation of IL-4 signaling pathways may advance the treatment of auto-immune disorders.
Species:	Human
Isotype:	IgG4
Clonality:	Monoclonal
Concentration:	1.17 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	Heavy chain: 51.4 kDa + glycans; Light chain: 24 kDa
Glycosylation:	This antibody runs at a higher MW by SDS-PAGE due to glycosylation.
Label:	This antibody is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation confirmed to be ≥90%.
Stability:	At least 12 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	Assay was performed according to IL-4RA: IL-4 [Biotinylated] Inhibitor Screening Chemiluminescence Assay Kit (#83532) with an anti-His-HRP conjugate (50 µl/well) diluted 1000-fold in Blocking Buffer 2 (#79728).
Applications:	Useful for binding assays and avidin-pulldown assays.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



IL-4Ra: IL-4[B] Binding Activity



Biotin-Avidin Pulldown

