



# SZABO SCANDIC

Part of Europa Biosite

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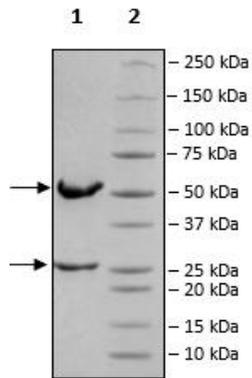
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Product Information

<b>Description:</b>	This anti-IL-12 p40/ IL-12B antibody is a purified, humanized recombinant monoclonal antibody that recognizes human p40 (also known as IL-12B). This antibody has been tested for neutralization of IL-12B (Interleukin-12 subunit beta) interaction with IL12R $\beta$ 1 (IL-12 receptor beta 1) in a binding assay. This antibody is similar to Ustekinumab.
<b>Background:</b>	IL-12B (Interleukin-12 subunit beta) encodes the p40 subunit of the heterodimeric cytokine IL-12, which functions alongside the p35 subunit (encoded by IL-12A). The IL12R $\beta$ 1 receptor subunit interacts with IL-12B and plays a crucial role in the IL-12 and IL-23 signaling pathways, promoting Th1 cell differentiation and IFN- $\gamma$ (Interferon- $\gamma$ ) production. Anti-p40 neutralizing antibodies, which target the p40 subunit common to both IL-12 and IL-23, are primarily used as therapeutic agents for autoimmune and inflammatory diseases. These antibodies, such as Ustekinumab, have demonstrated significant efficacy in conditions such as psoriasis, psoriatic arthritis, and Crohn's disease by reducing inflammatory responses and modulating immune activity. The continued exploration of these antibodies holds promise for expanding their use to other immune-related conditions and improving patient outcomes.
<b>Species:</b>	Humanized
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Concentration:</b>	1.42 mg/ml
<b>Expression System:</b>	HEK293
<b>Purity:</b>	$\geq 90\%$
<b>Format:</b>	Aqueous buffer solution.
<b>Formulated In:</b>	8 mM phosphate pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
<b>MW:</b>	Heavy chain: 49.4 kDa + glycans; Light chain: 23.5 kDa
<b>Glycosylation:</b>	This antibody runs at a higher MW by SDS-PAGE due to glycosylation.
<b>Stability:</b>	At least 6 months at $-80^{\circ}\text{C}$ .
<b>Storage:</b>	$-80^{\circ}\text{C}$
<b>Instructions for Use:</b>	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.
<b>Assay Conditions:</b>	Assay was done according to IL12B:IL12RB1 [Biotinylated] Inhibitor Screening Chemiluminescence Assay Kit (#82581) with increasing amounts of Anti-IL-12 p40/ IL-12B Antibody.
<b>Applications:</b>	Useful for studying the binding and neutralization of IL-12B (Interleukin-12 subunit beta) interaction with IL12R $\beta$ 1 in ELISA and in cellular assays.

## Quality Control Data

### 4-20% SDS-PAGE Coomassie Staining



### IL12B:IL12R $\beta$ 1 Binding

