



# 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

### SZABO-SCANDIC HandelsgmbH

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## Anti-Collagen type II [CIIC1 ] Bulk Size Ab03291-10.0-BT

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Human IgG1, Kappa

**Clone Number:** CIIC1

**Alternative Name(s) of Target:** CII; Alpha-1 type II collagen; Collagen alpha-1(II) chain

**UniProt Accession Number of Target Protein:** P02458

**Published Application(s):** crystallization, in vitro, in vivo, WB, ELISA, IHC

**Published Species Reactivity:** Bovine, chick, Rat, Human, Mouse

**Immunogen:** The original antibody was generated by immunizing DBA/1 mice with chick sternal type II collagen.

**Specificity:** The antibody binds the triple helical C1 epitope (GARGLT) of collagen type II.

**Application Notes:** This anti-collagen type II antibody CIIC1 is an arthritogenic antibody, which induces arthritis in mice (Holmdahl et al., 1986; PMID: 2421741 and Nandakumar et al., 2003; PMID: 12884302). The antibody specificity towards collagen type II was assayed in an ELISA. The antibody was selected for in vivo injection experiments in naive DBA/1 male mice, at no time was any arthritis detected macroscopically after treatment with 0.5, 2 or 5 mg of antibody per animal, however development of synovitis was noticed (Holmdahl et al., 1986; PMID: 2421741). The structure of the Fab fragment was determined by X-ray crystallography. The specificity of the full length CIIC1 antibody and the Fv fragment was confirmed by ELISA analysis. Further investigation by using both the full length antibody and a single chain Fv fragment in ELISA experiments revealed that the antibody bound also to other IgG1, IgG2a and IgG2b anti-collagen antibodies (Uysal et al., 2008; PMID: 18241923). The antibody detected collagene type II by western blot analysis (Burkhardt et al., 2005; PMID: 15832289). In vitro studies demonstrated that the antibody together with M2139 antibody suppressed the self-assembly of CII into fibrils (Croxford et al., 2010; PMID: 20662051). This antibody was used for immunohistochemistry on cartilaginous tissue (Vickers et al., 2010; PMID: 20225321).

**Antibody First Published in:** Holmdahl et al. Characterization of the antibody response in mice with type II collagen-induced arthritis, using monoclonal anti-type II collagen antibodies. *Arthritis Rheum.* 1986 Mar;29(3):400-10. [PMID:2421741](https://pubmed.ncbi.nlm.nih.gov/2421741/)

**Note on publication:** The paper describes the generation and characterization of twenty monoclonal antibodies reactive with type II collagen.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. 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.