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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Collagen type II [M2139] Standard Size Ab02802-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: M2139

Alternative Name(s) of Target: M2 139; CII; Col II; CollA; ACPA; COL2A1; citrullinated CII; Col C II; citrullinated proteins; antibodies against citrullinated proteins; Collagen alpha-1(II) chain; Alpha-1 type II collagen

UniProt Accession Number of Target Protein: P02458

Published Application(s): Blocking, in vivo, ELISA, IHC

Published Species Reactivity: Bovine, Chicken, Rat, Human, Mouse

Immunogen: The original antibody was generated by immunizing DBA/1 mice with chicken or rat CII.

Specificity: This antibody is specific for the J1 epitope (amino acids 551-564 of collagen type II (MPGERRGAAGIAGPK)).

Application Notes: Epitope localization of the original format of this antibody (mouse IgG2b) was conducted using ELISA (Schulte et al., 1998; PMID: 9430695). this antibody, in combination with CIIC1, was utilized to induce collagen type II (Col II) antibody-induced arthritis *in vivo* in mice (Nandakumar et al., 2003; PMID: 14578183). This combination has later been shown to be potently arthritogenic *in vivo*, affecting cartilage matrix integrity in cartilage explant cultures, impairing synthesis of new matrix, and disrupting collagen fibril formation in chondrocyte cultures (Croxford et al., 2013; PMID: 23239042). Moreover, this antibody was employed in a study to investigate whether mAb CIIF4, when given in combination with this antibody and CIIC1, can prevent cartilage damage in bovine cartilage explants *in vitro* (Croxford et al., 2010; PMID: 20662051). The original version of this antibody was utilized to examine the production of collagen II with IHC staining (Gharravi et al., 2016; PMID: 26254592) and in the immunohistochemical staining of Col II (Soetjahjo et al., 2018; PMID: n/a).

Antibody First Published in: Schulte et al. Arthritis-related B cell epitopes in collagen II are conformation-dependent and sterically privileged in accessible sites of cartilage collagen fibrils *J Biol Chem.* 1998 Jan 16;273(3):1551-61. [PMID:9430695](#)

Note on publication: The original publication investigates the development of antibodies against collagen type II (CII) in the context of arthritis, focusing on the characterization of arthritis-related conformational epitopes and highlighting the influence of the triple-helical conformation on antigen recognition, alongside a preimmune B cell selection process biased by the accessibility of CII determinants in intact cartilage tissue.

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.