Medaysis
Enable Innovation

DATA SHEET

Rabbit Anti-Collagen II [MD396R]: RM0166, RM0166RTU7

Intended Use: For Research Use Only

Description: The extensive family of COL gene products (collagens) is composed of several chain types, including fibril-forming interstitial collagens (types I, II, III and V) and basement membrane collagens (type IV), each type containing multiple isoforms. Collagens are fibrous, extracellular matrix proteins with high tensile strength and are the major components of connective tissue, such as tendons and cartilage. All collagens contain a triple helix domain and frequently show lateral self-association in order to form complex connective tissues. Several collagens also play a role in cell adhesion, important for maintaining normal tissue architecture and function. In cartilage, Collagen Type II constitutes the bulk of the fibril. Sensitization with Collagen Type II induces an erosive polyarthritis in rats, mice and higher primates which can resemble rheumatoid arthritis and relapsing polychrondritis.

Specifications:

Clone:	MD396R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Bovine collagen type II
Localization:	Secreted, extracellular matrix
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

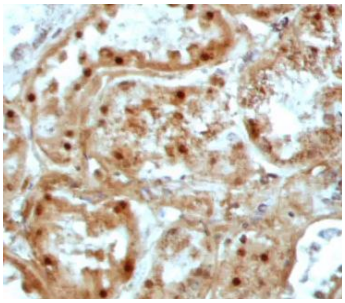
Package:

Description	Catalog No.	Size
Collagen II Concentrated	RM0166	1 ml
Collagen II Prediluted	RM0166RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Cartilage lung, kidney, eye
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA p9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human kidney stained with anti-Collagen II using DAB

References:

1. Optimization of immunohistochemical detection of collagen type II in osteochondral sections by comparing decalcification and antigen retrieval agent combinations. Soosai Manickam Amirtham, et al. Clin Anat. Apr;33(3):343-349, 2020. doi: 10.1002/ca.23441.
2. Immunohistochemical study of collagen types I and II and procollagen IIA in human cartilage repair tissue following autologous chondrocyte implantation. S Roberts, et al. Knee. Oct;16(5):398–404, 2009. doi: 10.1016/j.knee.2009.02.004.
3. Immunohistochemical Localization of Collagen Type XI α1 and α2 Chains in Human Colon Tissue. Kara B. Bowen, et al., J. of Histochemistry and Cytochemistry. November 12, 2007.

Doc. 100-RM0166
Rev. A

Orders: customercare@medaysis.com Support: techsupport@medaysis.com Tel: 510-509-3153 www.medaysis.com