

Mouse Anti-Collagen I/COL1A1 [3G3]: MC0016, MC0016RTU7

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. This clone reacts collagen I.

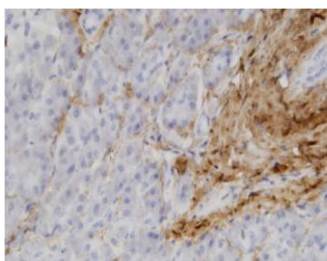
Specifications:

Clone: 3G3
Source: Mouse
Isotype: IgG3k
Reactivity: Human, mouse, rat
Localization: Secreted, cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, ELISA, IF, IP, WB
Package:

Description	Catalog No.	Size
Collagen I/COL1A1 Concentrated	MC0016	1 ml
Collagen I/COL1A1 Prediluted	MC0016RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Breast carcinoma, colon, placenta and stomach tissues
Concentrated Dilution: 50-100
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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 pancreas tissue stained with anti-Collagen I using DAB

References:

1. Wound healing effects of methanol extract of *Laurocerasus officinalis* roem. Ayla S, et al. *Biotech Histochem.* Apr;94(3):180-188, 2018.
2. MicroRNA-532 protects the heart in acute myocardial infarction, and represses prss23, a positive regulator of endothelial-to-mesenchymal transition. Bayoumi AS, et al. *Cardiovasc Res.* Nov 1;113(13), 2017.
3. BMP2 induces chondrogenic differentiation, osteogenic differentiation and endochondral ossification in stem cells. Zhou N, et al. *Cell Tissue Res.* Oct;366(1):101-11, 2016.