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DATA SHEET

Mouse Anti-Collagen III [9H9]: MC0284, MC0284RTU7

Intended Use: For Research Use Only

Description: The family of 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. It is the main component of connective tissue, and is the most abundant protein in mammals, making up about 25% to 35% of the whole-body protein content. Collagen alpha-1(III) chain is a protein that in humans is encoded by the COL3A1 gene, which is located on chromosome 2. Collagen alpha-1(III) chain is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I collagen.

Specifications:

Clone:	9H9
Source:	Mouse
Isotype:	IgG2b
Reactivity:	Human, mouse, rat
Immunogen:	E. coli-derived human Collagen III/COL3A1 recombinant protein
Localization:	Secreted, extracellular space, extracellular matrix
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, WB

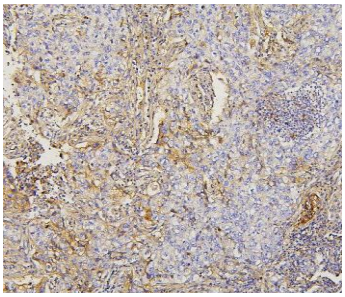
Package:

Description	Catalog No.	Size
Collagen III Concentrated	MC0284	1 ml
Collagen III Prediluted	MC0284RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Skin, placenta, kidney
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	Overnight @ 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human lung carcinoma stained with anti-Collagen III using DAB

References:

1. Hepatoprotective effect of juglone on dimethylnitrosamine-induced liver fibrosis and its effect on hepatic antioxidant defence and the expression levels of α-SMA and collagen III. De-Jiang Zhou, et al. Mol Med Rep. Sep; 12(3):4095-4102, 2015.
2. Inhibition of high-mobility group box 1 expression by siRNA in rat hepatic stellate cells, Wen-Song Ge, et al. World J Gastroenterol. Sep 28;17(36):4090-8, 2011.

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