

Collagen IV Monoclonal Antibody (1042), eFluor™ 660, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), eFluor™ 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1042
Conjugate	eFluor™ 660
Excitation/Emission Max	651/668 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574404

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	-
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	-
Immunocytochemistry (ICC/IF)	10 µg/mL	3 Publications

Product Specific Information

Description: This monoclonal antibody 1042 recognizes human collagen Type IV. Collagens are the main components of the extracellular matrix and provide the tensile strength to tissues. There are four main types of collagen (I, II, III and IV) which contribute to the connective tissue. Expression of type IV is restricted to the basal lamina. It contains two alpha-1 and one alpha-2-like chains. Collagen Type IV is associated with disorders such as Alport syndrome and Goodpasture's syndrome.

Applications Reported: This 1042 antibody has been reported for use in immunohistochemical staining, immunohistochemical staining of frozen tissue sections, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

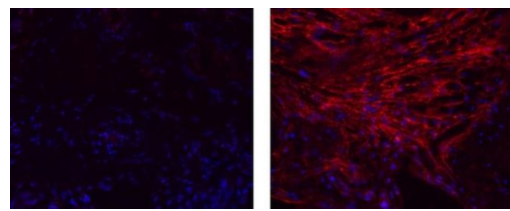
Applications Tested: This 1042 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded human tissue using low pH antigen retrieval and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Collagen IV Monoclonal Antibody (1042), eFluor™ 660, eBioscience™



Collagen IV Antibody (50-9871-82) in IHC (P)
Immunohistochemistry of formalin-fixed paraffin embedded human placenta stained with 10 µg/mL Mouse IgG2b K Isotype Control eFluor® 660 (left) or 10 µg/mL Anti-Human Collagen Type IV eFluor® 660 (right). Nuclei are stained with DAPI.

View more figures on thermofisher.com

4 References

Immunohistochemistry (1)

Cell reports methods	Year 2021
SeqStain is an efficient method for multiplexed, spatialomic profiling of human and murine tissues.	
"Published figure using Collagen IV monoclonal antibody (Product # 50-9871-82) in Immunocytochemistry"	
Authors: Rajagopalan A,Venkatesh I,Aslam R,Kirchenbuechler D,Khanna S,Cimbaluk D,Kordower JH,Gupta V	

Immunocytochemistry (3)

BMC biomedical engineering	Year 2022
A high content, phenotypic 'scar-in-a-jar' assay for rapid quantification of collagen fibrillogenesis using disease-derived pulmonary fibroblasts.	Species Human
"50-9871 was used in Immunocytochemistry to describe a robust, high content, pseudo-3D phenotypic assay to quantify mature fibrillar collagen deposition which is both physiologically relevant and amenable to high throughput compound screening."	Dilution 1:1000
Authors: Good RB,Eley JD,Gower E,Butt G,Blanchard AD,Fisher AJ,Nanthakumar CB	

Nephron	Year 2020
Spontaneous Extracellular Matrix Accumulation in a Human in vitro Model of Renal Fibrosis Is Mediated by V Integrins.	
"Published figure using Collagen IV monoclonal antibody (Product # 50-9871-82) in Immunocytochemistry"	
Authors: Bon H,Hales P,Lumb S,Holdsworth G,Johnson T,Qureshi O,Twomey BM	

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