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## Anti-Human Collagen Type IV Purified

**Catalog Number:** 14-9871

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Human Collagen Type IV Purified

 **Catalog Number:** 14-9871

**Clone:** 1042

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG2b, k

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C.



 **LOT**



**Batch Code:** Refer to vial

**Use By:** Refer to vial

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### 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 immunoprecipitation, western blotting, immunohistochemical staining of frozen (IHC-F) and formalin-fixed paraffin embedded (IHC-P) tissue sections.

### Applications Tested

This 1042 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded (FFPE) tissue with low pH antigen retrieval. This can be used at less than or equal to 5 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Hewitt RE, Powe DG, Morrell K, Bailey E, Leach IH, Ellis IO, Turner DR Laminin and collagen IV subunit distribution in normal and neoplastic tissues of colorectum and breast J Cancer. 1997; 75(2): 221–229. (1042, IHC frozen)

Schlingemann RO, Rietveld FJR, Kwaspen F, van de Kerkhof PCM, de Waal RMW, Ruiters DJ. Differential Expression of Markers for Endothelial Cells, Pericytes, and Basal Lamina in the Microvasculature of Tumors and Granulation Tissue American Am J Pathol. 1991 June; 138(6): 1335–1347.

Havenith MG, Cleutjens JPM, Beek C, Linden EVD, Goeij AFPM, Bosman FT. Human specific anti-type IV collagen monoclonal antibodies, characterization and immunohistochemical application. Histochemistry and Cell Biology 1987, 87 (2): 123-128. (1042, mAb characterization)

### Related Products

00-4955 IHC Antigen Retrieval Solution – Low pH (10X)

14-4732 Mouse IgG2b K Isotype Control Purified

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