

Mouse Anti-Collagen IV [PHM-12]: MC0525, MC0525RTU7

Intended Use: For Research Use Only

Description: This antibody reacts with collagen IV and does not cross-react with other collagen types. It does not cross-react with human vitronectin, fibronectin or chondroitin sulfate A, B, or C. Collagen IV is present in the basal lamina and does not form fibrils or fibers. The positive or negative demonstration of basal lamina using immunostaining helps to distinguish some types of benign lesions from malignant tumors such as tubular carcinoma of the breast. Schwannomas and leiomyomas and their well differentiated malignant counterparts usually immunoreact in a characteristic fashion to the monoclonal antibody for type IV Collagen. The vascular nature of neoplasms such as hemangiopericytoma and epithelioid hemangio-endothelioma can be revealed by type IV Collagen with more reliability than other non-specific stains.

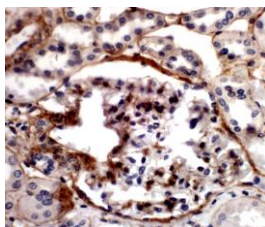
Specifications:

Clone: PHM-12
Source: Mouse
Isotype: IgG1
Reactivity: Human
Localization: Cytoplasm, membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC
Package:

Description	Catalog No.	Size
Collagen IV Concentrated	MC0525	1 ml
Collagen IV Prediluted	MC0525RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Skin, placenta, kidney
Concentrated Dilution: 50-100
Pretreatment: Citrate pH6.0, 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 kidney stained with anti-Collagen IV using DAB

References:

1. Diffusible factors released by fibroblasts support epidermal morphogenesis and deposition of basement membrane components. El Ghalbzouri, et al. Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society, 12: 359-67, 2004.
2. Fibroblasts facilitate re-epithelialization in wounded human skin equivalents. El Ghalbzouri, , et al. Lab. Invest., 84: 102-12, 2004.
3. Morphofunctional studies of the glomerular wall in mice lacking entactin-1. Simon-Philippe Lebel, et al. The journal of histochemistry and cytochemistry: official journal of the Histochemistry Society. 51 1467-78, 2003.