

Product Datasheet

Collagen IV Antibody (MC4-HA) **NBP1-42233**

Unit Size: 1 ml

Store at 4C. Do not freeze.

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NBP1-42233

Collagen IV Antibody (MC4-HA)

Product Information

Unit Size	1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MC4-HA
Preservative	No Preservative
Isotype	IgM
Purity	Unpurified
Buffer	Ascites

Product Description

Host	Mouse
Gene ID	1282
Gene Symbol	COL4A1
Species	Human
Reactivity Notes	Human
Specificity/Sensitivity	This monoclonal antibody reacts with native human collagen type IV, and with heat-denatured collagen IV form in ELISA and immunoblots. There is no cross-reactivity with human collagen I, II, III and V. It stains exclusively basement membranes on cryostat sections of human tissues such as kidney, liver and heart. The extent of expression of the basement membrane component type IV collagen may be correlated with the degree of differentiation of basement membrane producing neoplasms. Neoplastic cells of invasive carcinomas often lack a continuous basement membrane. In diagnostic histopathology antibodies to type IV collagen may help to distinguish between non-invasive (benign or <i>in situ</i>) and invasive lesions. Furthermore the antibody is important in the differential diagnosis of bullous lesions in dermatopathology. In <i>in vitro</i> studies with endothelial cells and smooth muscle cells the antibody is helpful in detection of production collagen type IV. This antibody reacts also with dog collagen IV on cryostate and paraffin sections.
Immunogen	The antibody reacts with the Collagen IV antigen.

Product Application Details

Applications	ELISA, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	For immunohistological staining of basement membranes on cryostat sections of human tissues. In combination with anti-collagen type I. It enables to discriminate between benign and malignant forms of soft tissue tumors (integrity of basement membranes is for immunohistochemistry on frozen sections fixation with acetone for 5 minutes at -20C is recommended. Staining of paraffin material generally renders less successful results. Such material should be fixed with neutral formalin and proteolytic pretreatment.



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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