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Rabbit anti Collagen IV

Catalogue number: **MUB0338S**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	0.25 ml
Host	Rabbit
Species reactivity	Cattle Human Rat Swine
Application	Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Distributors

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Background

The extent of expression of the basement membrane component type IV collagen may be correlated with the degree of differentiation of basement membrane producing neoplasma. 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 in situ) and invasive lesions. Furthermore the antiSerum is important in the differential diagnosis of bullous lesions in dermatopathology.

Source

This polyclonal type IV collagen antibody is a Rabbit polyclonal antibody. The Rabbits were immunized with isolated Human type IV collagen. The immunogen has been isolated from Human placenta.

Product

Each vial contains 250ul Rabbit polyclonal antiSerum including 0.09% sodium azide

Applications

Polyclonal type IV is useful for immunoblotting, immunocytochemistry on fixed cells (methanol fixation) and immunohistochemistry on frozen tissues (fixed in methanol, acetone or 1% paraformaldehyde) when using a PBS buffer containing 0.1 mM CaCl₂ and 0.1 mM MgCl₂. For immunohistochemistry on paraffin tissue the sections should be pretreated with 1 mg/ml pepsin in 0.01 N HCl for 30 minutes at

room temperature. Optimal antibody dilution should be determined by titration; 1:25 – 1:100 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

Specificity

Polyclonal type IV collagen recognizes the extracellular – basement membranes.

Storage

Store at 4oC, or in small aliquots for prolonged storage at –20oC.

References

1. Visser, R., van der Beek, J.M.H., Havenith, M.G., Cleutjens, J.P.M. and Bosman, F.T. (1986). Immunocytochemical detection of basement membrane antigens in the histopathological evaluation of laryngeal dysplasia and neoplasia. *Histopathology* 10, 171-180.
2. Cleutjens, J.P.M., Havenith, M.G., Kasper, M., Vallinga, M., and Bosman, F.T. (1990). Absence of type IV collagen in the centre of the corneal epithelial basement membrane. *Histochemical Journal* 22, 688-94.
3. Havenith, M.G. et al. (1987). Human specific anti-type IV collagen monoclonal antibodies, characterisation and immunohistochemical application. *Histochemistry* 87, 123-28.
4. Schapers, R.F.M., Pauwels, R.P.E., Havenith, M.G., Smeets, A.W.G.B, van den Brandt and P.A. Bosman, F.T. (1990). Prognostic Significance of type IV collagen and laminin immunoreactivity in urothelial carcinomas of the bladder. *Cancer* 66, 2583-88.
5. Cleutjens JP, Havenith MG, Beek C, Vallinga M, Ten Kate J, Bosman FT. (1990) Origin of basement membrane type IV collagen in xenografted human epithelial tumor cell lines. *Am J Pathol.* 136:1165-72.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.