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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Mouse anti Collagen Type IV

Catalogue number: **MUB0337P**

| | |
|--------------------|---|
| Clone | 1043 |
| Isotype | IgG1 |
| Product Type | Primary Antibodies |
| Units | 0.1 mg |
| Host | Mouse |
| Species reactivity | Cattle Human Swine |
| Application | Flow cytometry Immunoblotting Immunocytochemistry Immunofluorescence 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.

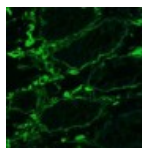
Source

1043 is a mouse monoclonal IgG1 antibody derived by fusion of Sp 2/0 mouse myeloma cells with spleen cells from a BABL/c mouse immunized with purified human type IV collagen. The immunogen has been isolated from human placenta.

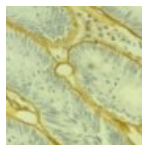
Product

Each vial contains 100 ul 1mg/ml of purified monoclonal antibody in PBS containing 0.09%

MUB0337 Figure 1
Immunohistochemistry
on frozen section of
human colon



MUB0337 Figure 2
Immunohistochemistry
on paraffin section of
human colon



sodium azide

Applications

1043 is useful for immunoblotting, immunocytochemistry on fixed cells (methanol fixation) and immunohistochemistry on frozen tissues when using a PBS buffer containing 0.1 mM CaCl₂ and 0.1 mM MgCl₂. For immunohistochemistry on paraffin sections 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; 1:50 – 1:100 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

Cross Reactivity

Does not react with other species

Specificity

1043 recognizes type IV collagen in the extracellular - basement membranes of normal and pathological human tissues.

Storage

Store at 4°C, or in small aliquots at -20°C.

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.