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Mouse anti Cytokeratin 13

Catalogue number: **MUB0344S**

Clone	2D7
Isotype	IgG2b
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Species reactivity	Human
Application	Immunoblotting Immunohistochemistry (frozen)

Distributors

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Background

Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in Human epithelial tissues by at least 20 different polypeptides. They range in molecular weight between 40 kDa and 68 kDa and isoelectric pH between 4.9 – 7.8. The individual Human Cytokeratins are numbered 1 to 20. The various epithelia in the Human body usually express Cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The Cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.

Source

2D7 is a Mouse monoclonal IgG2b antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a Cytokeratin preparation extracted from Human esophagus.

Product

Each vial contains 1 ml of culture supernatant of monoclonal antibody containing 0.09% sodium azide.

Applications

2D7 is suitable for immunoblotting and immunohistochemistry on frozen tissues and for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent. Optimal antibody dilution should be determined by

titration. Recommended working dilution 1:5 -1:10.

Cross Reactivity

Human, most mammals, including Mouse, Rat and Rabbit.

Specificity

2D7 reacts exclusively with Cytokeratin 13 which is present in non-cornified squamous epithelia, except cornea, and transitional epithelial regions, with the exception of basal cell layers of some stratified epithelia.

Storage

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

References

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3. Smedts, F., Ramaekers, F., Robben, H., Pruszczynski, M., van Muijen, G., Lane, B., Leigh, I., and Vooijs, P. (1990). Changing patterns of Keratin expression during progression of cervical intraepithelial neoplasia, *Am J Pathol* 136, 657-68.
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5. Smedts, F., Ramaekers, F., Troyanovsky, S., Pruszczynski, M., Link, M., Lane, B., Leigh, I., Schijf, C., and Vooijs, P. (1992). Keratin expression in cervical cancer, *Am J Pathol* 141, 497-511.
6. Bauwens, L. J., De Groot, J. C., Ramaekers, F. C., Veldman, J. E., and Huizing, E. H. (1992). Expression of intermediate filament proteins in the adult Human vestibular labyrinth, *Ann Otol Rhinol Laryngol* 101, 479-86.
7. Van Niekerk, C. C., Ramaekers, F. C., Hanselaar, A. G., Aldeweireldt, J., and Poels, L. G. (1993). Changes in expression of differentiation markers between normal ovarian cells and derived tumors, *Am J Pathol* 142, 157-77.
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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.

