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Mouse anti Cytokeratin 13

Catalogue number: **MUB0340S**

Clone	Ks13.1
Isotype	IgG1
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Species reactivity	Cattle Human Rat
Application	Immunoblotting Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

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

Ks13.1 is a Mouse monoclonal IgG1 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 1ml of culture supernatant of monoclonal antibody containing 0.09% sodium azide.

Applications

Ks13.1 is suitable for immunoblotting and immunohistochemistry

on frozen tissues and paraffin embedded tissue after protease pretreatment. Optimal antibody dilution should be determined by titration.

Specificity

Ks13.1 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. As a result the antibody also reacts with neoplasms derived from these epithelia.

Storage

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

References

1. Dallenbach-Hellweg, G., Lang, G. (1991). Immunohistochemical studies on uterine tumors, Path. Res. Pract. 187, 36-43.
2. Dockhorn-Dworniczak, B., Franke, W.W., Schröder, S., Czernobilsky, B., Gould, V.E. and Böcker, W. (1987). Patterns of expression of cytoskeletal proteins in Human thyroid gland and thyroid carcinomas, Differentiation 35, 53-71.
3. Franke, W.W., Moll, R., Achtstätter Th. and Kuhn, C. (1986) Cell typing of epithelia and carcinomas of the female genital tract using cytoskeletal proteins as markers, Banbury Report 21, Viral Etiology of Cervical Cancer, Cold Spring Harbor Laboratory (NY), 121-148.
4. Moll, R., Achtstätter, Th., Becht, E., Balcarova-Ständer, J., Ittensohn, M. and Franke, W.W. (1988). Cytokeratins in normal and malignant transitional epithelium, Am. J. Pathol. 132, 123-144.
5. Moll, R., Franke, W.W., Schiller, D.L., Geiger, B. and Krepler, R. (1982). The Catalog of Human Cytokeratins: Patterns of expression in normal epithelia, tumors and cultured cells, Cell 31, 11-24.
6. Demirkesen, C., Hoede, N., Moll, R. (1995). Epithelial markers and differentiation in adnexal neoplasms of the skin: an immunohistochemical study including individual Cytokeratins, J Cutan Pathol 22: 518-535.

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.