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Mouse anti Cytokeratin 20

Catalogue number: **MUB0343S**

Clone	MKs20-8
Isotype	IgG2a
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Species reactivity	Human
Application	Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunohistochemistry (paraffin) Immunoprecipitation

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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

MKs20-8 is a Mouse monoclonal IgG2a antibody derived by fusion of Mouse myeloma cells with spleen cells from a Balb/c Mouse immunized with electrophoretically purified Keratin K20 from Human intestinal mucosa.

Cytokeratin 20 immunofluorescence staining of human colon epithelium.



Product

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

Applications

MKs20-8 is suitable for immunoprecipitation, immunoblotting, immunocytochemistry on fixed cells, and immunohistochemistry on frozen and paraffin-embedded tissues. Optimal antibody dilution should be determined by titration.

Specificity

MKs20-8 may be used as a marker for certain types of carcinomas such as adenocarcinomas of the colon, transitional cell carcinomas of the bladder and Merkel cell tumors of the skin; it may also be used as a sensitive detection of intestinal and gastric foveolar epithelium, urothelial umbrella cells, Merkel cells of epidermis as well as tumors originating therefrom (e.g. primary and metastatic colorectal carcinoma).

Storage

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

References

1. Moll, R., Löwe, A., Laufer, J. and Franke, W.W.: Cytokeratin 20 in Human carcinomas: A new histodiagnostic marker detected by monoclonal antibodies. *Am.J.Path.* 140, 427-447 (1992).
2. Moll, R., Schiller, D.L. and Franke, W.W.: Identification of protein IT of the intestinal cytoskeleton as a novel type I Cytokeratin with unusual properties and expression patterns. *J.Cell.Biol.* 111,567-580 (1990).
3. Moll, R., Zimbelmann, R., Goldschmidt, M.D., Keith, M., Laufer, J., Kasper, M., Koch, P.J., Franke, W.W.: The Human gene encoding Cytokeratin 20 and its expression during fetal development and in gastrointestinal carcinomas. *Differentiation* 53, 75-93 (1993).

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

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