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Mouse anti Cytokeratin 18 / Keratin K18

 nordicmubio.com/products/mouse-anti-cytokeratin-18-keratin-k18/MUB0328P

Catalog number: **MUB0328P**

Clone	DE-K18
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species Reactivity	Canine Feline Human Zebrafish
Application	Flow Cytometry Immunocytochemistry Immunohistochemistry (frozen) Immunohistochemistry (paraffin) Western Blotting

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

DE-K18 is a Mouse monoclonal IgG1, k antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a (BALB/c x B6)F1 Mouse immunized with a cytoskeletal preparation extracted from the Human vulvar squamous carcinoma cell line A431.

Product

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

Formulation: Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Specificity

DE-K18 reacts exclusively with Cytokeratin 18 which is present in glandular epithelial cells of the digestive, respiratory, and urogenital tracts, endocrine and exocrine cells and mesothelial cells, as well as adenocarcinomas originating from them.

Applications

DE-K18 is useful for immunocytochemistry, immunoblotting, flow cytometry and immunohistochemistry on frozen and paraffin-embedded tissues. For staining on paraffin-embedded tissues pretreatment with 0,1% pepsin in 0.1 N HCl 30 min at room temperature is required. Optimal antibody dilution should be determined by titration; recommended range is 1:100 – 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

Storage

The antibody is shipped at ambient temperature and may be stored at +4°C. For prolonged storage prepare appropriate aliquots and store at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.

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. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

1. Ivanyi, D., Minke, J. M., Hageman, C., Groeneveld, E., and van Doornewaard, G. (1992). Patterns of expression of feline Cytokeratins in healthy epithelia and mammary carcinoma cells, *Am J Vet Res* 53, 304-14. 2. Vos, J. H., van den Ingh, T. S., de Neijs, M., van Mil, F. N., Ivanyi, D., and Ramaekers, F. C. (1992). Immunohistochemistry with Keratin monoclonal antibodies in canine tissues: urogenital tract, respiratory tract, (neuro-)endocrine tissues, choroid plexus and spinal cord, *J Vet Med* 39, 721-40. 3. Vos, J. H., van den Ingh, T. S., Ramaekers, F. C., Molenbeek, R. F., de Neijs, M., van Mil, F. N., and Ivanyi, D. (1993). The expression of Keratins, vimentin, neurofilament proteins, smooth muscle actin, neuron-specific enolase, and synaptophysin in tumors of the specific glands in the canine anal region, *Vet Pathol* 30, 352-61. 4. Bonfrer, J. M., Groeneveld, E. M., Korse, C. M., van Dalen, A., Oomen, L. C., and Ivanyi, D. (1994). Monoclonal antibody M3 used in tissue polypeptide-specific antigen assay for the quantification of tissue polypeptide antigen recognizes Keratin 18, *Tumour Biol* 15, 210-22.

Protein Reference(s)

Database Name: UniProt

Accession Number: P05783

Safety Datasheet(s) for this product:

NM_Sodium Azide