

Mouse anti-Human CytokeRatin 18 / KeRatin K18 Monoclonal Antibody | anti-KRT18 antibody

Mouse anti CytokeRatin 18 / KeRatin K18

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77496	Mouse	Human	Western Blot, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Flow Cytometry, Functional Assay

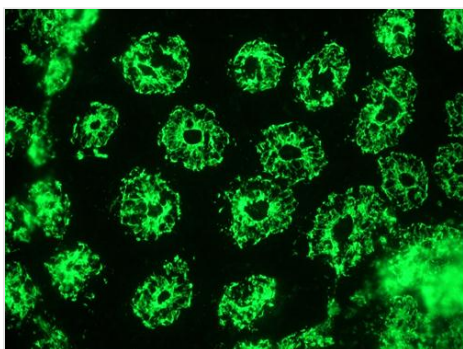
PRODUCT SYNONYMS

CytokeRatin 18 / KeRatin K18; Monoclonal Antibody; Mouse anti CytokeRatin 18 / KeRatin K18; anti-KRT18 antibody

PRODUCT SPECIFICATIONS

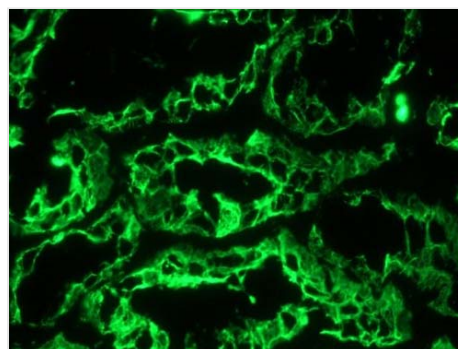
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	RCK106
Specificity	RCK106 reacts exclusively with cytokeRatin 18 in glandular epithelial cells of the digestive, respiRatory, and urogenital tracts, endocrine and exocrine cells and mesothelial cells, as well as adenocarcinomas originating from them.
Form/Format	Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-KRT18 antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Source Note	RCK106 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a Mouse immunized with cytokeRatins from the Human bladder carcinoma cell line T24.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

IMAGES



Application Data

Figure 3: Immunohistochemistry on frozen section of human small intestine



Application Data

Figure 2: Immunohistochemistry on frozen section of human kidney



Application Data

Figure 1: Immunohistochemistry on paraffin section of human colon

ADDITIONAL INFORMATION

Related Product Information for anti-KRT18 antibody	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 identification of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.
Product Categories/Family for anti-KRT18 antibody	Cytoskeletal ; Cancer ; Cell differentiation ; Cytoskeleton
References	Ramaekers, F., Huysmans, A., Schaart, G., Moesker, O., and Vooijs, P. (1987). Tissue distribution of keRatin 7 as monitored by a monoclonal antibody, Exp Cell Res 170, 235-49. Raats, J. M., Pieper, F. R., Vree Egberts, W. T., Verrijp, K. N., Ramaekers, F. C., and Bloemendal, H. (1990). Assembly of amino-terminally deleted desmin in vimentin-free cells, J Cell Biol 111, 1971-85. 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. Ramaekers, F., van Niekerk, C., Poels, L., Schaafsma, E., Huijsmans, A., Robben, H., Schaart, G., and Vooijs, P. (1990). Use of monoclonal antibodies to keRatin 7 in the differential diagnosis of adenocarcinomas, Am J Pathol 136, 641-55. Schaafsma, H. E., Ramaekers, F. C., van Muijen, G. N., Lane, E. B., Leigh, I. M., Robben, H., Huijsmans, A., Ooms, E. C., and Ruiters, D. J. (1990). Distribution of cytokeratin polypeptides in Human transitional cell carcinomas, with special emphasis on changing expression patterns during tumor progression, Am J Pathol 136, 329-43. Ivanyi, D., Groeneveld, E., Van Doornewaard, G., Mooi, W. J., and Hageman, P. C. (1990). KeRatin subtypes in carcinomas of the uterine cervix: implications for histogenesis and differential diagnosis, Cancer Res 50, 5143-52. 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. 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. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	34037
NCBI GeneID	3875
UniProt Accession #	P05783 ; Q53G38 ; Q5U0N8 ; Q9BW26 ; Q15899
Molecular Weight	48,058 Da
NCBI Official Full Name	cytokeratin 18
NCBI Official Synonym Full Names	keratin 18

NCBI Official Symbol	KRT18
NCBI Official Synonym Symbols	K18; CYK18
NCBI Protein Information	keratin, type I cytoskeletal 18; CK-18; keratin-18; cytokeratin 18; cytokeratin-18; cell proliferation-inducing protein 46; cell proliferation-inducing gene 46 protein
UniProt Protein Name	Keratin, type I cytoskeletal 18
UniProt Gene Name	KRT18
UniProt Synonym Gene Names	CYK18
UniProt Entry Name	K1C18_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cytokeratin-18-keratin-k18-antibody-clone-rck106-western-blot-immunohistochemistry-immunohistochemistry-immunocytochemistry-flow-cytometry-elisa/77496>