

Datasheet for ABIN335341
anti-Cytokeratin 18 antibody



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Overview

Quantity:	0.1 mg
Target:	Cytokeratin 18 (KRT18)
Reactivity:	Human, Dog, Cat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 18 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	DE-K18 is a mouse monoclonal IgG1, kappa 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.
Clone:	DE-K18
Isotype:	IgG1
Specificity:	Human, canine and feline.
Purification:	Purified

Target Details

Target:	Cytokeratin 18 (KRT18)
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Target Details

Alternative Name:	Cytokeratin 18 / Keratin K18 (KRT18 Products)
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.
Pathways:	Apoptosis , Caspase Cascade in Apoptosis

Application Details

Application Notes:	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. 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.
Restrictions:	For Research Use only

Handling

Storage:	4 °C
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Publications

Product cited in:	Bonfrer, Groeneveld, Korse, van Dalen, Oomen, Ivanyi: "Monoclonal antibody M3 used in tissue polypeptide-specific antigen assay for the quantification of tissue polypeptide antigen recognizes keratin 18." in: Tumour biology , Vol. 15, Issue 4, pp. 210-22, (1994) (PubMed).
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van Bommel, Kenemans, Helmerhorst, Gallee, Ivanyi: "Expression of cytokeratin 10, 13, and involucrin as prognostic factors in low stage squamous cell carcinoma of the uterine cervix." in: **Cancer**, Vol. 74, Issue 8, pp. 2314-20, (1994) ([PubMed](#)).

Vos, van den Ingh, de Neijs, van Mil, Ivanyi, Ramaekers: "Immunohistochemistry with keratin monoclonal antibodies in canine tissues: urogenital tract, respiratory tract, (neuro-)endocrine tissues, choroid plexus and spinal cord." in: **Zentralblatt für Veterinärmedizin. Reihe A**, Vol. 39, Issue 10, pp. 721-40, (1993) ([PubMed](#)).

Vos, van den Ingh, Ramaekers, Molenbeek, de Neijs, van Mil, Ivanyi: "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." in: **Veterinary pathology**, Vol. 30, Issue 4, pp. 352-61, (1993) ([PubMed](#)).

Ivanyi, Minke, Hageman, Groeneveld, van Doornewaard: "Patterns of expression of feline cytokeratins in healthy epithelia and mammary carcinoma cells." in: **American journal of veterinary research**, Vol. 53, Issue 3, pp. 304-14, (1992) ([PubMed](#)).