Datasheet for ABIN335330

anti-Cytokeratin 18 antibody

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Overview

Quantity:	0.1 mg
Target:	Cytokeratin 18 (KRT18)
Reactivity:	Human, Mouse, Rat, Dog, Pig, Hamster, Rabbit, Zebrafish (Danio rerio), Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 18 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	RGE53 is a mouse monoclonal IgG1 antibody derived by fusion of mouse myeloma cells with spleen cells from a mouse immunized with a cytoskeletal preparation of cells.
Clone:	RGE53
Isotype:	IgG1
Specificity:	Human, mouse, rat, hamster, rabbit, chicken, canine and swine.
Purification:	Purified

Target Details

Target:	Cytokeratin 18 (KRT18)
Alternative Name:	Cytokeratin 18 / Keratin K18 (KRT18 Products)

Target Details

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:	RGE53 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. RGE53 is suitable for immunoblotting, immunocytochemistry, immunohistochemistry on frozen sections and flow cytometry. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 1:200 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

Publications

Product cited in:	van Leenders, Dijkman, Hulsbergen-van de Kaa, Ruiter, Schalken: "Demonstration of intermediate cells during human prostate epithelial differentiation in situ and in vitro using triple-staining confocal scanning microscopy." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 80, Issue 8, pp. 1251-8, (2000) (PubMed). Smedts, Ramaekers, Troyanovsky, Pruszczynski, Link, Lane, Leigh, Schijf, Vooijs: "Keratin expression in cervical cancer." in: **The American journal of pathology**, Vol. 141, Issue 2, pp.

497-511, (1992) (PubMed).

Ramaekers, van Niekerk, Poels, Schaafsma, Huijsmans, Robben, Schaart, Vooijs: "Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas." in: **The American journal of pathology**, Vol. 136, Issue 3, pp. 641-55, (1990) (PubMed).

Smedts, Ramaekers, Robben, Pruszczynski, van Muijen, Lane, Leigh, Vooijs: "Changing patterns of keratin expression during progression of cervical intraepithelial neoplasia." in: **The American journal of pathology**, Vol. 136, Issue 3, pp. 657-68, (1990) (PubMed).

Raats, Pieper, Vree Egberts, Verrijp, Ramaekers, Bloemendal: "Assembly of amino-terminally deleted desmin in vimentin-free cells." in: **The Journal of cell biology**, Vol. 111, Issue 5 Pt 1, pp. 1971-85, (1990) (PubMed).

There are more publications referencing this product on: Product page

Images

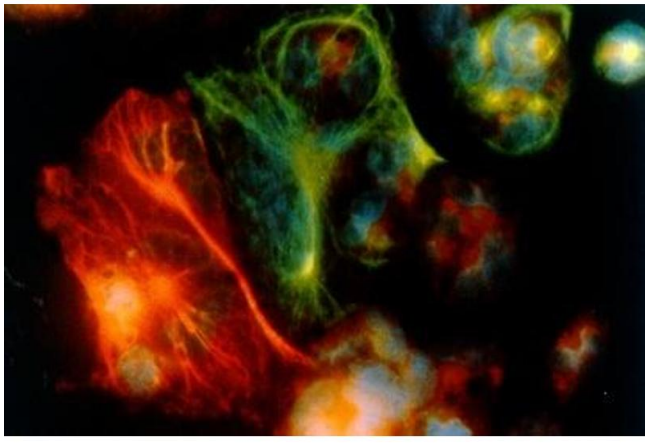
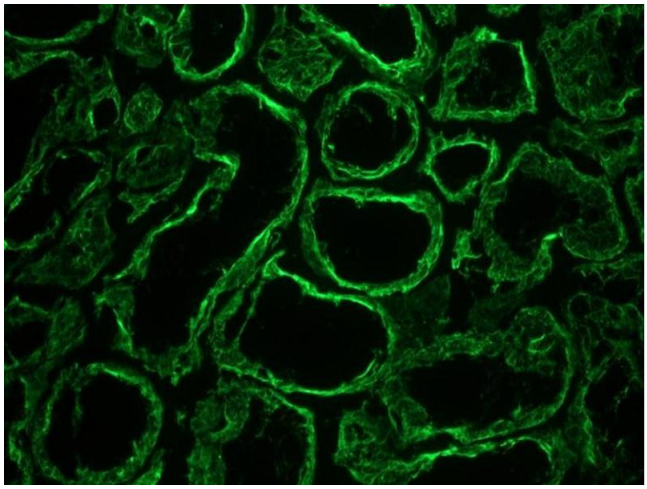


Image 1.



Immunohistochemistry (Frozen Sections)

Image 2. Immunohistochemistry on frozen section of human kidney epithelium