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## BM6001 Monoclonal Antibody to Cytokeratin (basal cell) - Supernatant

Quantity: 1 ml

**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.

Host / Isotype: Mouse / IgG1

Clone: RCK103

Immunogen: A mix of cell preparations containing human cytokeratins

Format: State: Tissue Culture Supernatant

Preservatives: 0.09% Sodium Azide

Applications: Immunoblotting (1/100-1/1000).

Immunohistochemistry on Frozen tissues (1/100-1/200 with avidin-biotinylated

horseradish peroxidase complex (ABC) as detection reagent).

Immunocytochemistry.

Flow Cytometry (1/100-1/200).

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

**Specificity:** Clone *RCK103* is a Cytokeratin antibody recognizing (amongst others) cytokeratin 5.

This monoclonal antibody stains basal cells in combined and stratified epithelial tissues. It recognizes the stem cell population, including the so-called amplifying

cells in the prostate epithelium.

**Species Reactivity:** Tested: Human, Quail, Chicken, Rat, Rabbit, Hamster, Canine, Swine and Guinea Pig.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freeze-thaw cycles. Shelf life: One year from despatch.

General Readings: 1. Feitz, W. F., Debruyne, F. M., Vooijs, G. P., Herman, C. J., and Ramaekers, F. C. (1986).

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- 9. van Leenders, G., Dijkman, H., Hulsbergen-van de Kaa, C., Ruiter, D., and Schalken, J. (2000). Demonstration of intermediate cells during human prostate epithelial differentiation in situ and in vitro using triple-staining confocal scanning microscopy, Lab Invest 80, 1251-8.