

Product datasheet for **BM6005P**

Cytokeratin 18 (KRT18) Mouse Monoclonal Antibody [Clone ID: RGE53]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RGE53
Applications:	FC, IF, IHC, WB
Recommended Dilution:	Immunoblotting: 1/100-1/1000. Immunocytochemistry. Flow Cytometry. Immunohistochemistry on Frozen tissues: 1/100-1/200 with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent.
Reactivity:	Canine, Chicken, Hamster, Human, Mouse, Porcine, Rabbit, Rat, Zebrafish
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Cytoskeletal preparation of cells.
Specificity:	Clone <i>RGE53</i> reacts exclusively with cytokeratin 18 which is present in glandular epithel cells of the digestive, respiratory, and urogenital tracts, endocrine and exocrine cells and mesothelial cells, as well as adenocarcinomas originating from them.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 18
Database Link:	Entrez Gene 3875 Human P05783



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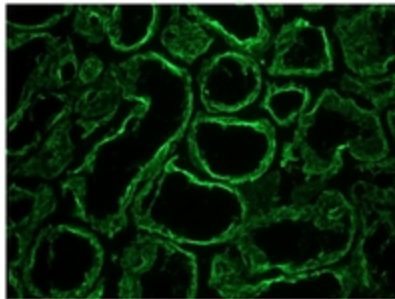
Background:

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.

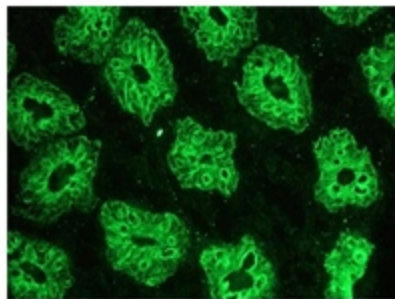
Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.

Synonyms:

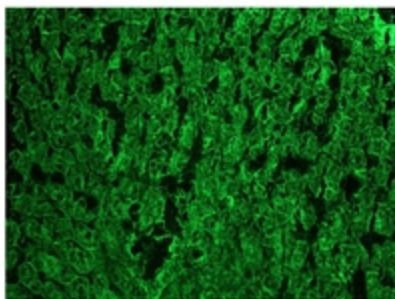
Cytokeratin-18, CK18, Keratin-18, Keratin 18, KRT18, CYK18, K18

Product images:

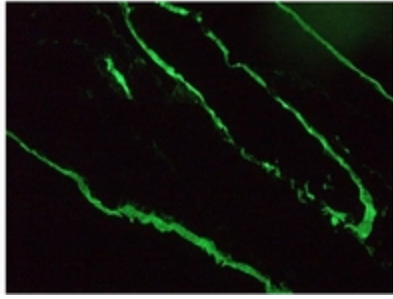
Immunohistochemistry on frozen section of human kidney epithelium



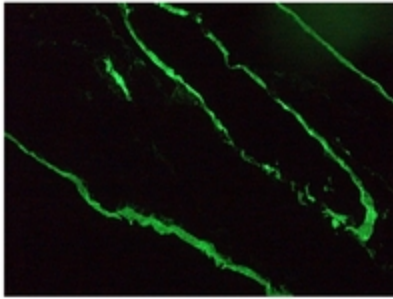
Immunohistochemistry on frozen section of human colon



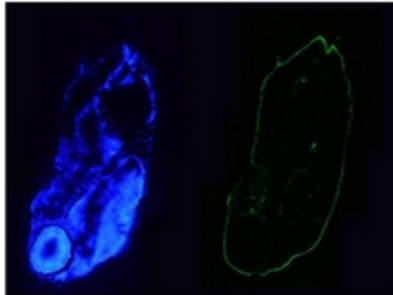
Immunohistochemistry on frozen section of swine liver hepatocytes



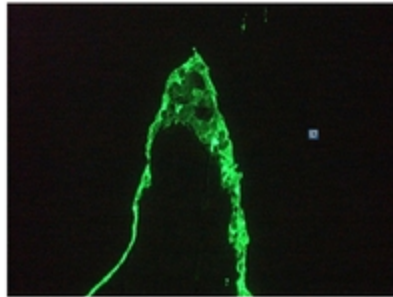
Immunofluorescence staining of a 2 days old zebrafish embryo. Left panel: DAPI-staining of cell nuclei, providing an overview of the tissue section used for immunostaining



Immunofluorescence staining pattern of internal epithelia as well as epidermis of 2 days old zebrafish embryo



Immunofluorescence staining of a 5 days old zebrafish embryo. Left panel: DAPI-staining of cell nuclei, providing an overview of the tissue section used for immunostaining



Immunofluorescence staining of 1 month old zebrafish embryo