BM555F

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Monoclonal Antibody to pan Cytokeratin (4+5+6+8+10+13+18) - FITC

Alternate names: Cytokeratin pan-reactive, pan Keratin

Catalog No.: BM555F

Quantity: 100 Tests

Background: Cytokeratins are a subfamily of intermediate filaments and characterized by remarkable biochemical diversity. Cytokeratins are represented in epithelial tissues by at least 20 different polypeptides, molecular weight between 40 kDa and 68 kDa. The individual cytokeratin polypeptides are designated 1 to 20 and divided into the type I (acidic cytokeratins 9-20) and type II (basic to neutral cytokeratins 1-8) families.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10F (for use in human samples), SM20F (for use in rat samples)

Clone: C-11

Immunogen: Epidermal carcinoma cell line A431

Format:
State: Liquid purified Ig fraction
Purification: Ion Exchange Chromatography followed by Gel Filtration
Buffer System: PBS
Preservatives: 0.09% Sodium azide
Stabilizers: 1% BSA
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications:
Western blot.
Immunofluorescence.
Flow Cytometry: Use 10 µl of neat antibody to label 1x 10^6 cells in 100 µl.
Immunohistochemistry on Frozen Sections
Immunohistochemistry on Paraffin Sections (Require protein digestion pre-treatment e. g. trypsin or pronase).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises Cytokeratins 4, 5, 6, 8, 10, 13 and 18.
The antibody reacts specifically with a wide range of normal, reactive and neoplastic epithelial tissues.

Species Reactivity: **Tested:** Human, Rat, Amphibia and Bovine

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citations:

Purchased from Acris:

1. Uta Fernekorn, Jörg Hampl, Frank Weise, Maren Klett, Annette Läffert, Karin Friedel and Andreas Schober. Microfluidic 3D HepG2 cell culture: Reproducing hepatic tumor gene and protein expression in in vitro scaffolds.Engineering in Life Sciences. DOI: 10.1002/elsc.201400083

General Readings:

1. Bártek J, Vojt□sek B, Stasková Z, Bártková J, Kerekés Z, Rejthar A, et al. A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology. J Pathol. 1991 Jul;164(3):215-24. PubMed PMID: 1716305.
2. Bártková J, Bártek J, Lukás Z, Vojt□sek B, Stasková Z, Bursová H, et al. Effects of tissue fixation conditions and protease pretreatment on immunohistochemical performance of a large series of new anti-keratin monoclonal antibodies: value in oncopathology. Neoplasma. 1991;38(4):439-46. PubMed PMID: 1717857.