

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

Alternate names:	Cytokeratin pan-reactive, pan Keratin
Catalog No.:	BM555B
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
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:	SM10B (for use in human samples)
Clone:	C-11
Immunogen:	Keratin-enriched preparation from human epidermoid carcinoma cell line A431
Format:	State: Liquid purified Ig fraction Buffer System: Phosphate buffered saline (PBS) Preservatives: 15 mM sodium azide, approx. pH 7.4 Label: Biotin – Conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Applications:	Indirect immunofluorescence analysis by Flow Cytometry . Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Cytokeratin peptides 4, 5, 6, 8, 10, 13, 18. Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.
Species Reactivity:	Tested: Human, Mammalian
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
General Readings:	1. Kovarík J, Rejthar A, Lauerová L, Vojtšsek B, Bártková J. Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread. <i>Int J Cancer Suppl.</i> 1988;3:50-5. PubMed PMID: 2463228. 2. Vojtšsek B, Stasková Z, Nenutil R, Lauerová L, Kovarík J, Rejthar A, et al. Monoclonal antibodies recognizing different epitopes of cytokeratin No.18. <i>Folia Biol (Praha).</i> 1989;35(6):373-82. PubMed PMID: 2483834.

3. Bártek J, Vojtšek 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.

4. Hamakawa H, Sumida T, Tanioka H, Sogawa K, Yamada T. Extraction of cytokeratin from the human submandibular gland and its electrophoretic analysis. *Res Commun Mol Pathol Pharmacol.* 1998 Aug;101(2):115-26. PubMed PMID: 9821208.

5. Broekema M, Harmsen MC, Koerts JA, Petersen AH, van Luyn MJ, Navis G, et al. Determinants of tubular bone marrow-derived cell engraftment after renal ischemia/reperfusion in rats. *Kidney Int.* 2005 Dec;68(6):2572-81. PubMed PMID: 16316332.

Pictures:

Detection of cytokeratin on paraffin-embedded sections of guinea pig breast carcinoma using anti-cytokeratin antibody (C-11).

