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BM555S Monoclonal Antibody to pan Cytokeratin (4+5+6+8+10+13+18) - Purified

Alternate names: Cytokeratin pan-reactive, pan Keratin

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: AM03095PU-N

Clone: C-11

Immunogen: Keratin-enriched preparation from human epidermoid carcinoma cell line A431

Format:
State: Liquid purified Ig fraction (› 95% pure by SDS-PAGE)
Purification: Affinity Chromatography on Protein A
Buffer System: PBS, pH~7.4
Preservatives: 15 mM Sodium Azide

Applications:
Western Blot.
Flow Cytometry: 0.5 µg/ml.
Immunoprecipitation.
Immunocytochemistry.
Immunohistochemistry on Paraffin Sections.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The antibody reacts with Cytokeratin peptides 4, 5, 6, 8, 10, 13, 18 (recognized epitope conserved within all species). Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.

Species Reactivity: **Tested:** Mammalian

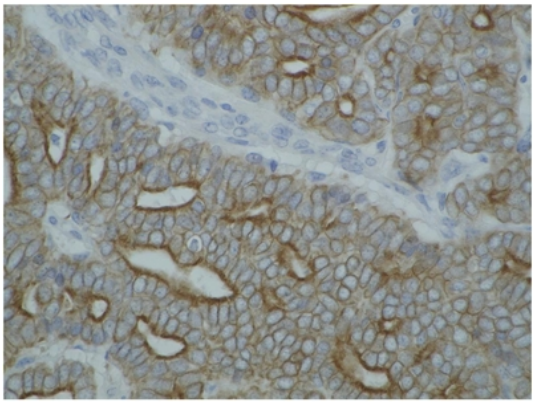
Storage: Store undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: one year from despatch.

General Readings:
1. Kovarík J, Rejthar A, Lauerová L, Vojt□sek B, Bártková J. Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread. Int J Cancer Suppl. 1988;3:50-5. PubMed PMID: 2463228.
2. 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.

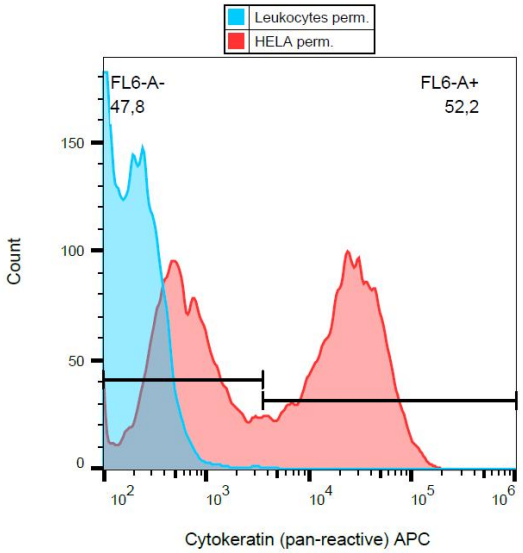
3. Hamakawa H, Sumida T, Tanioka H, Sogawa K, Yamada T. Extraction of cytokeratin from the human submandibular gland and its electrophoretic analysis. Res Commun Mol Pathol Pharmacol. 1998 Aug;101(2):115-26. PubMed PMID: 9821208.
4. Broekema M, Harmsen MC, Koerts JA, Petersen AH, van Luyn MJ, Navis G, 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.
5. Vojt□sek B, Stasková Z, Nenutil R, Lauerová L, Kovarík J, Rejthar A, et al. Monoclonal antibodies recognizing different epitopes of cytokeratin No.18. Folia Biol (Praha). 1989;35(6):373-82. PubMed PMID: 2483834.

Pictures:

Figure 2. Detection of cytokeratin on paraffin-embedded sections of guinea pig breast carcinoma using anti-cytokeratin antibody (C-11).



Intracellular flow cytometry analysis of cytokeratin expression in HeLa cells using anti-cytokeratin antibody (C-11) APC.



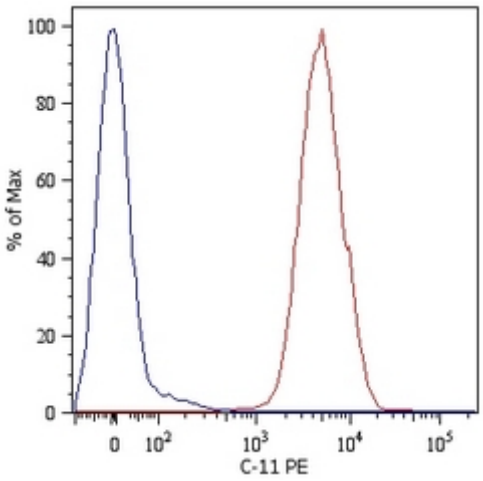


Figure 1. Intracellular flow cytometry analysis of cytokeratin expression in HT-29 human Caucasian colon adenocarcinoma cell line using anti-cytokeratin antibody (C-11) PE. Overlay with Isotype Mouse IgG1 control (PPV-06, cat. AM03095RP-N)