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Purified Mouse Anti-Cytokeratin 18 Monoclonal Antibody

CLX113AP

Lot:

Size: 0.1 mg

Clone: C-04

Isotype: Mouse IgG₁

Specificity: The antibody C-04 reacts with Cytokeratin 18 (45 kDa). Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.

Immunogen: Cytoskeleton preparation of epidermal carcinoma cell line A431.

Species Reactivity: Mammalian

Application: **Immunohistochemistry (paraffin sections)**

Flow Cytometry

Immunoprecipitation

Western Blotting

Recommended dilution:

1-2 mg/ml, overnight in 4°C

Positive control:

HeLa human cervix carcinoma cell line

MCF-7 human breast adenocarcinoma cell line

Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer.

Application note: Non-reducing conditions. SDS-PAGE (10% separating gel).

Immunocytochemistry

ELISA

Application note: The antibody C-04 has been tested as the capture antibody in a sandwich ELISA for analysis of Cytokeratin 18 in combination with antibody DA-7 (cat. no. **CLX117B**) and with the antibody DC-10 (cat. no. **CLX114B**).

Purity: > 95% (by SDS-PAGE)

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Purification:	Purified from hybridoma culture supernatant by protein A-affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Background:	<p>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.</p> <p>Cytokeratins 18 belongs to type I family (acidic cytokeratins).</p>
References:	<p>*Taylor-Papadimitriou J, Stampfer M, Bartek J, Lewis A, Boshell M, Lane EB, Leigh I.M.: Keratin expression in human mammary epithelial cells cultured from normal and malignant tissue: relation to in vivo phenotypes and influence of medium. <i>J Cell Sci.</i> 1989 Nov;94 (Pt 3):403-13.</p> <p>*Kovarik J. et al., <i>J. Tumor Marker Oncol.</i> 5, 219 (1990).</p> <p>*Cap J, Cerman J, Nemecek S, Marekova M, Hana V, Frysak Z.: The influence of treatment with somatostatin analogues on morphology, proliferative and apoptotic activity in GH-secreting pituitary adenomas. <i>J Clin Neurosci.</i> 2003 Jul;10(4):444-8.</p> <p>*Lauerova L, Kovarik J, Bartek J, Rejthar A, Vojtesek B.: Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule. <i>Hybridoma.</i> 1988 Oct;7(5):495-504.</p> <p>*Kovarik J, Rejthar A, Lauerova L, Vojtesek B, Bartkova J.: Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread. <i>Int J Cancer Suppl.</i> 1988;3:50-5.</p> <p>*Vojtesek B, Staskova Z, Nenutil R, Lauerova L, Kovarik J, Rejthar A, Bartkova J, Bartek J.: Monoclonal antibodies recognizing different epitopes of cytokeratin No.18. <i>Folia Biol (Praha).</i> 1989;35(6):373-82.</p> <p>*Bartek J, Vojtesek B, Staskova Z, Bartkova J, Kerekes Z, Rejthar A, Kovarik J.: A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology. <i>J Pathol.</i> 1991 Jul;164(3):215-24.</p>

Laboratory Reagent For Research Use Only