EXBIO Antibodies

PRODUCT DATA SHEET

1P-108-C025

Monoclonal Antibody to Cytokeratin (Pan-reactive) Phycoerythrin (PE) conjugated (0.025 mg)

Clone: C-11

Isotype: Mouse IgG1

Specificity: The antibody C-11 reacts with Cytokeratin peptides 4, 5, 6, 8, 10, 13, 18. Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.

Regulatory Status: RUO

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

Species Reactivity: Mammalian

Preparation: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

Concentration: 0.1 mg/ml

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis. It is recommended to use 10-15 µl of antibody conjugate per 10^6 cells (100 µl cell suspension). Since applications vary, the reagent should be titrated for each particular testing system.

Expiration: See vial label

Lot Number: See vial label

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.

References:

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*Vojtĕsek B, Stasková Z, Nenutil R, Lauerová L, Kovarík J, Rejthar A, Bártková J, Bártek J: Monoclonal antibodies recognizing different epitopes of cytokeratin No.18. Folia Biol (Praha). 1989;35(6):373-82.

*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. J Pathol. 1991 Jul;164(3):215-24.

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

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