EXBIO Antibodies

PRODUCT DATA SHEET

1F-107-C100

Monoclonal Antibody to Cytokeratin 18 Fluorescein (FITC) conjugated (0.1 mg)

Clone: DC-10

Isotype: Mouse IgG1

Specificity: The antibody DC-10 reacts with Cytokeratin 18 (45 kDa). Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.

Regulatory Status: RUO

Immunogen: Human breast carcinoma cell line PMC-42.

Species Reactivity: Human

Negative Species: Porcine, Mouse, Rat, Hamster, Bovine, Canine (Dog), Sheep

Preparation: The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.

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 and Immunofluorescence. Suggested working dilution is 5-10 ug/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.

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.
Cytokeratin 18 belongs to type I family (acidic cytokeratins).

References:

*Lauerova L, Kovarik J, Bartek J, Rejthar A, Vojtesek B: Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule. Hybridoma. 1988 Oct;7(5):495-504.
*Kovarik J, Rejthar A, Lauerova L, Vojtesek B, Bartkova J: Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread. Int J Cancer Suppl. 1988;3:50-5.
*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. Folia Biol (Praha). 1989;35(6):373-82.

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