

## TECHNICAL DATA SHEET

### CyFlow™ CK-18 Purified Anti-Hu; Clone DC-10

**REF** AG204097

**For Research Use Only.**  
**Not for use in diagnostic or therapeutic procedures.**

### Specifications

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| <b>Antigen</b>                     | Cytokeratin 18                                  |
| <b>Alternative Names</b>           | —                                               |
| <b>Clone</b>                       | DC-10                                           |
| <b>Clonality</b>                   | monoclonal                                      |
| <b>Format</b>                      | Purified                                        |
| <b>Host / Isotype</b>              | Mouse / IgG1                                    |
| <b>Species Reactivity</b>          | Human                                           |
| <b>Negative Species Reactivity</b> | Mouse   Rat   Pig   Cow   Sheep   Dog   Hamster |
| <b>Quantity [Concentration]</b>    | 0.1 mg [ 1 mg/ml ]                              |
| <b>Immunogen</b>                   | Human breast carcinoma cell line PMC-42         |

### Specificity

The mouse monoclonal antibody DC-10 recognizes Cytokeratin 18 (45 kDa). Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.

#### Contact Information:

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## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (paraffin-embedded sections)
- Immunocytochemistry
- Enzyme-linked immunosorbent assay

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH  $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

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

## Background Information

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

- 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. < PMID: 2463228 >
- 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. < PMID: 2461901 >
- Vojtěšek B, Stasková Z, Nenutil R, Lauerová L, Kovarik J, Rejthar A, Bártková J, Bártek J.: Monoclonal antibodies recognizing different epitopes of cytokeratin No.18. Folia Biol (Praha). 1989; 35(6):373-82. < PMID: 2483834 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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