DATA SHEET

Keratin 18 Ab-1 (Clone DC10)

Mouse Monoclonal Antibody

Cat. #DLN-07756, DLN-07757, or DLN-07755 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #DLN-07758 or DLN-07759 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #DLN-07753, DLN-07754, or DLN-07752 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-labeled Ab with BSA and Azide)
Cat. # DLN-07760 (7.0ml)

Description: keratin 18, which belongs to the type A (acidic) subfamily of low molecular weight keratins exists in combination with keratin 8. It was reported that tissues from gastrointestinal tract are positive for both keratin 8 and 18 but do not contain keratin 14. Tissues from gastrointestinal tract, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for keratin 18.

Comments: Ab-1 recognizes a variety of simple epithelia including glandular epithelium but not stratified squamous epithelia.

Mol. Wt. of Antigen: 45kDa

Epitope: Not determined

Species Reactivity: Human. Does not react with rat. Others not known.

Clone Designation: DC10

Ig Isotype: IgG_1

Immunogen: Human breast cancer PMC 42 cells

Applications and Suggested Dilutions:

- Immunofluorescence
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin)
  (Ab 1-2µg/ml for 30 min at RT)

* [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: HT29 cells. Skin. Breast or lung carcinoma

Cellular Localization: Cytoplasmic

dianova GmbH
Warburgstr. 45 ● 20354 Hamburg
Telefon (040)45067-0 ● Telefax (040) 45067-490 ● www.dianova.de

DATA SHEET

Keratin 18 Ab-1 (Clone DC10)

Mouse Monoclonal Antibody

Cat. #DLN-07756, DLN-07757, or DLN-07755 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #DLN-07758 or DLN-07759 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #DLN-07753, DLN-07754, or DLN-07752 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-labeled Ab with BSA and Azide)
Cat. # DLN-07760 (7.0ml)

Supplied As:

200µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Lauerova L *et. al.* Hybridoma, 1988, 7:495-504.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

dianova GmbH
Warburgstr. 45 ● 20354 Hamburg
Telefon (040)45067-0 ● Telefax (040) 45067-490 ● www.dianova.de

DATA SHEET

Keratin 18 Ab-1 (Clone DC10)

Mouse Monoclonal Antibody

Cat. #DLN-07756, DLN-07757, or DLN-07755 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #DLN-07758 or DLN-07759 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #DLN-07753, DLN-07754, or DLN-07752 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-labeled Ab with BSA and Azide)

Cat. # DLN-07760 (7.0ml)

Additional Key References:

1. Kasper M. Heterogeneity in the immunolocalization of cytokeratin specific monoclonal antibodies in the rat eye: evaluation of unusual epithelial tissue entities. Histochemistry, 1991, 95(6):613-20.

2. Lane EB; Alexander CM. Use of keratin antibodies in tumor diagnosis. Seminars in Cancer Biology, 1990, 1:165-79.

3. 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, 1989, 35:373-82.

4. Kovarik J; Rejthar A; Lauerova L; Vojtesek B; Bartkova J. Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread. International Journal of Cancer. Supplement, 1988, 3:50-5.

5. Lauerova L; Kovarik J; Bartek J; Rejthar A; Vojtesek B. Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule. Hybridoma, 1988, 7(5):495-504.

dianova GmbH

Warburgstr. 45 ● 20354 Hamburg

Telefon (040)45067-0 ● Telefax (040) 45067-490 ● www.dianova.de