

Novocastra™ Lyophilized Mouse Monoclonal Antibody Cytokeratin 18

Product Code: NCL-CK18

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human cytokeratin 18 intermediate filament protein.
Clone	DC-10
Ig Class	IgG1
Antigen Used for Immunizations	PMC-42 human breast carcinoma cell line.
Hybridoma Partner	Mouse myeloma (P3.X63-Ag8.653).
Preparation	Lyophilized tissue culture supernatant containing sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	Yes.
Effective on Paraffin Wax Embedded Tissue	Yes.
Recommendations on Use	Immunohistochemistry on paraffin sections. Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 9. Suggested dilution: 1:100 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. Visualization: Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems' Web site, www.LeicaBiosystems.com . The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.
Positive Controls	Immunohistochemistry: Liver. Western Blotting: Not evaluated
Staining Pattern	Cytoplasmic.
Storage and Stability	Store unopened lyophilized antibody at 2-8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 2-8 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
Warnings and Precautions	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from www.LeicaBiosystems.com





B I O S Y S T E M S

General Overview

NCL-CK18 reacts with the acidic cytokeratin intermediate filament protein (45 kD) identified as cytokeratin 18. Cytokeratin 18 is normally co-expressed with cytokeratin 8 and is found in most simple ductal and glandular epithelia. In general, NCL-CK18 does not react with squamous epithelium.

General References

Bartek J, Vojtesek B, Staskova Z, et al.. *Journal of Pathology*. 164: 215–224 (1991).
Lane E B and Alexander C M. In: Osborn M, ed. *Seminars in Cancer Biology: Antibodies in Diagnosis and Therapy*. Philadelphia: Saunders, 165–179 (1990).
Lauerova L, Kovarik J, Bartek J, et al.. *Hybridoma*. 7: 495–504 (1988).
Moli R, Franke W W, Schiller D L, et al.. *Cell*. 31: 11–24 (1982).