

Novocastra™ Lyophilized Mouse Monoclonal Antibody Cytokeratin (1/5/10/14)

Product Code: NCL-CK34BE12

Intended Use	FOR RESEARCH USE ONLY.
Specificity	Human cytokeratins 1, 5, 10 and 14 with molecular weights of approximately 68, 58, 56.5 and 50 kD, respectively.
Clone	34βE12
Ig Class	IgG1, kappa
Antigen Used for Immunizations	Solubilized keratin extracted from human stratum corneum.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
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 6. Suggested dilution: 1:100-1:200 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 Western Blotting: Typical working dilution 1:1000–1:4000.
Positive Controls	Immunohistochemistry: Skin. Western Blotting: Skin
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-CK34BE12 reacts with human cytokeratin intermediate filament proteins 1, 5, 10 and 14. The antibody is reported to react with squamous epithelium and sweat ducts in normal skin, some pneumocytes, bronchial epithelium and mesothelium in normal lung and bile ducts in normal liver. It also reacts with ductal cells of the normal pancreas, some acinar and ductal cells of normal breast, some follicular epithelia of normal thyroid and some epithelia and mesothelium of the normal small and large bowel.

General References

O'Malley F P, Grignon D J and Shum D T. *Virchows Archiv. (A) Pathological Anatomy and Histopathology.* 417: 191–196 (1990).
Gown A M and Vogel A M. *American Journal of Clinical Pathology.* 84 (4): 413–424 (1985).
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Gown A M and Vogel A M. *The Journal of Cell Biology.* 95:414–424 (1982).