Novocastra™ Liquid
Mouse Monoclonal Antibody
Cytokeratin 7

Product Code: NCL-L-CK7-560

**Intended Use**

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

**Specificity**

Human cytokeratin 7 intermediate filament.

**Clone**

RN7

**Ig Class**

IgG1

**Antigen Used for Immunizations**

Prokaryotic recombinant protein corresponding to part of the C-terminal region of the cytokeratin 7 molecule.

**Hybridoma Partner**

Mouse myeloma (p3-NS1-Ag4-1).

**Preparation**

Liquid tissue culture supernatant containing sodium azide. Volume as indicated on vial label.

**Effective on Frozen Tissue**

Not evaluated.

**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 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.

**Western Blotting:** Not recommended.

**Positive Controls**

Immunohistochemistry: Endometrium.

**Staining Pattern**

Cytoplasmic and membrane.

**Storage and Stability**

Store liquid 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. 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
General Overview
Cytokeratins are intermediate filament proteins present in epithelial cells. They are reported to be expressed in a tissue-specific manner in normal organs and the tumors that arise from them. Cytokeratin 7 belongs to the neutral basic type B subfamily of cytokeratins. Its distribution is confined to glandular and transitional epithelia. Cytokeratin 7 is reported to be expressed in abundance in cultured bronchial and mesothelial cells but only at lower levels in cultured epidermal cells. The predicted amino acid sequence of this keratin has revealed a striking difference between this keratin and the type II keratins expressed in epidermal cells.

General References