Novocastra™ Liquid Mouse Monoclonal Antibody Ki67 Antigen

Product Code: NCL-L-Ki67-MM1

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human Ki67 nuclear antigen expressed in all proliferating cells during late G1, S, G2 and M phases of the cell cycle.
Clone	MM1
Ig Class	IgG1
Antigen Used for Immunizations	Prokaryotic recombinant fusion protein corresponding to a 1086 bp Ki67 motif-containing cDNA fragment.
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	Yes. Optimum fixative, Zamboni's, 10 minutes at 25 °C (see Stefanini et al., 1967).
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:** 1:200 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 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: Tonsil.
Staining Pattern	Nuclear.
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	The Ki-67 antigen is a human nuclear protein, which is expressed in all active parts of the cell cycle (G1, S, G2 and M), but absent in resting cells (G0). In contrast to many other cell cycle-associated proteins, the Ki-67 antigen is consistently absent in quiescent cells and is not detectable during DNA repair processes. Thus, the presence of Ki-67 antigen is strictly associated with the cell cycle and confined to the nucleus, suggesting an important role of this structure in the maintenance and/or regulation of the cell division cycle.

Leica Biosystems Newcastle Ltd
Balliol Business Park West
Benton Lane
Newcastle Upon Tyne NE12 8EW
United Kingdom
+44 191 215 4242

LBS Deutschland GmbH
Heidelberger Straße 17-19
69226 Nussloch
Tel: +49 6224 143 0

BIOSYSTEMS

General References

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