



HISTOPRIME[®]

CatNo E059

Ki-67 (MIB-1)

Lot: See Label
Storage: +2 to +8 °C
Exp. Date: See Label

Monoclonal Antibody against human cell cycle marker, Ki-67

Specificity

The monoclonal antibody against the cell proliferation antigen Ki-67 detects this nuclear protein in all phases of mitotic cell division. Highly profiling tissue shows intense nuclear staining after the appropriate pretreatment.

Contents

Reagents sufficient for about 50-100 tissue sections
1 dropper bottle **HISTOPRIME[®] Ki-67 (MIB-1)** (Bottle, 5 ml)

Normal Tissues

In tissues that are naturally subject to high cell proliferation, such as tonsils or intestinal epithelium, the nuclei of cells that are in an active cell division stage (G1, S, G2 or M phase) are stained.

Abnormal Tissues

In tumor tissues of different origin, such as lymphoma, breast, and lung carcinoma, the cell nuclei of the different cycle phases are stained as in normal tissue. The intensity and frequency of stained nuclei provide a prognostic index for malignant tumors.

Cell nuclei during the resting phase of the cells (G0 phase) are negative.

E059-230109-1/2





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Characterization

Antigen	Recombinant Ki-67 from E.coli (encoded by 1002bp c-DAN fragment).
Specificity	Human nuclear Ki-67
Abnormal Tissues	Proliferating tumors of different origin
Clone	MIB-1
Isotype	Mouse IgG1
Pretreatment	Pretreatment with HistoSafe Enhancer Unmasking Solution (LINARIS CatNo E7000) is required for paraffin sections. Acetone fixation is recommended for freezing material.
Incubation Period	1 hour by room temperature
Control Tissue	Tonsil or breast carcinomas
Application	Ready-to-use in PBS, BSA, NaN ₃ (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections.
Recommended Secondary Reagents	Alkaline Phosphatase Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Peroxidase Vectastain [®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).

References

- Gerdes J. Ki-67 and proliferation marker useful for immunohistological diagnostic and prognostic evaluations in human malignancies. *Seminars in Cancer Biology* 1, 199-206 (1990).
- Gerdes J., Li L., Schlueter C., Duchrow M., Wohlenberg C., Gerlach C., et al. Immunobiochemical and molecular biologic characterization of the cell proliferation associated nuclear antigen that is defined by monoclonal antibody Ki-67. *Am. J. Pathol.* 138; 867-873 (1991)
- Tungekar M.F., Gatter K.C., Dunnill M.S., and Manson D.Y. Ki-67 immunostaining and survival in operable lung cancer. *Histopathol.* 19; 545-550 (1991)
- Wintzer H.O., Zipfel I., Schulte-Mönting J., Hellerich U., and von Kleist S. Ki-67 immunostaining in human breast tumors and its relationship to prognosis. *Cancer* 67; 421-428 (1991)
- Cattoretti G., Becker M.H., Key G., Duchrow M., Galle J., et al. Monoclonal antibodies against recombinant parts of the Ki-67 antigen (MIB 1 and MIB 3) detect proliferating cells in microwave-processed-fixed paraffin sections. *J. Pathol.* 168; 357-363 (1992)

Differential identification is aided by the results from a panel of antibodies. Interpretation must be made within the context of the patient's clinical history and other diagnostics tests by a qualified pathologist.

(*)Note E059 contains Sodium Azide; take adequate precautions!

E059-230109-2/2

For Research use only. Not for use in diagnostic procedure

Manufacturer

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FIT FOR SCIENCE

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