



HISTOPRIME[®]

CatNo E051

Estrogen Receptor

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

Monoclonal Antibody against Estrogen Receptor

Specificity

Steroid hormone receptors are of great importance for the diagnosis and therapy of breast cancer. The expression of estrogen or progesterone receptors in tumor tissue is a prerequisite for a patient's response to anti-hormone therapy.

Contents

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

Application

The monoclonal antibody E051 reacts with the N-terminal sequence of the human estrogen receptor (ER). It shows nuclear staining of epithelia of the uterus and mammary glands. Specifically, estrogen receptors are experimented in the nuclei of the corresponding carcinomas. Tissue-dependent cytoplasmic staining may also occur. The antibody can be used for frozen sections as well as for formalin-fixed paraffin material. A prerequisite for satisfactory staining results is a first-class preservation status of the tissue. However, recent investigations by our development laboratory have shown that differences in fixation can be largely compensated for by pretreating the tissue sections with our HistoSafe Enhancer Unmasking Solution (LINARIS CatNo E7000). After this pretreatment, a one-hour incubation period with the primary antibody (just as with frozen sections) is sufficient. In addition, we offer other paraffin-embedded antibodies such as anti-progesterone receptor (LINARIS CatNo E054), anti-cathepsin D (LINARIS CatNo E048) or anti-p-53 (LINARIS CatNo E052) for questions on breast carcinoma.

Fusion Partners

The monoclonal antibody E051 was obtained from culture supernatant of mouse hybridoma cells and is available in ready-to-use form.

E051-230109-1/2



HISTOPRIME[®]

CatNo E051

Characterization

Antigen	Recombinant human estrogen receptor protein
Specificity	Human estrogen receptor, N-terminal sequence
Clone	1D5
Isotype	Mouse IgG1
Pretreatment	Pretreat paraffin sections for 20 min at 96-100°C with HistoSafe Enhancer Unmasking Solution (LINARIS CatNo E7000) in a water bath or 3 times 6 min in the microwave. Cryostat material does not require pretreatment!
Incubation Period	1 hour by room temperature
Control Tissue	Breast Cancer
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

1. Horowitz, K. et al. Science 189, 725-727 (1975)
2. Clark, G. M. et al. Proceeding of Royal Society of Edinburgh 95B, 145-150 (1989)
3. Raemakers, J. et al. Eur. J. Cancer and Clin. Oncology 23(4), 443-447 (1987)
4. Stewart, J. et al. Breast Cancer Research and Treatment 2, 243-251 (1982)
5. Gross, G. et al. Cancer Research 44, 837-840 (1984)
6. Mason, B. et al. Cancer Research 43, 2985-2990 (1983)
7. Clark, G. et al. Ne England J. Medicine 309 (22); 1342-1343 (1983)
8. Giri et al. J. Clin. Pathol. 41, 444-447 (1988)

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 **E051 contains Sodium Azide; take adequate precautions!**

E051-230109-2/2

For Research use only. Not for use in diagnostic procedure

