

HISTOPRIME[®]

CatNo E056

CEA

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

Monoclonal Antibody against Carcinoembryonic antigen

Specificity

CEA is a phospho-glycoprotein and a component of the glycocalyx of the embryonic endodermal epithelium. It is a member of the immunoglobulin superfamily and the CD66 molecules (MW 170 to 200 kD) expressed by neutrophilic granulocytes. CEA is present in cell extracts of many carcinoma types, especially intestinal tumors. In serum, CEA is determined as a tumor marker whose concentration is reported to correlate well with tumor mass. CEA expression is usually a sign of de-differentiation in gastric and intestinal carcinomas.

Contents

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

Application

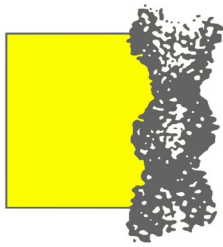
The monoclonal antibody against CEA (LINARIS CatNo E056, clone 85A12), labels normal colon tissue only weakly due to the low CEA synthesis rate. The same is true for benign epithelial tumors such as serous and mucinous cystadenomas. In contrast, the antibody has a strong affinity for tumor cells from adenocarcinomas of the colon. Furthermore, CEA expression is found in medullary thyroid carcinomas, pancreatic ductal carcinomas, and adenocarcinomas of the cervix, ovary, lung, and mammary glands. Endometrial carcinomas are usually CEA negative.

Fusion Partners

Spleen cells from immunized animals were fused with mouse myeloma cells. Purified CEA served as immunogen. Anti-CEA antibody-producing cell lines were used to obtain ascites. The antibody is available in purified form.

E056-230109-1/2





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Characterization

Antigen	Human Carcinoembryonic Antigen
Specificity	CEA
Abnormal Tissues	Colon and gastric carcinoma
Clone	85A12
Isotype	Mouse IgG1
Pretreatment	Pre-treatment of formaldehyde-fixed material with proteolytic enzymes (LINARIS Cat. No. E110) not required, but improves the results of the staining just as much as pre-treatment with HistoSafe Enhancer Unmasking Solution (LINARIS Cat. No. E7000)!
Incubation Period	1 hour by room temperature
Control Tissue	Colon 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. Ghosh, A. K. et al. (1987) Immunological staining reactions of anti-CEA and anti-HMFG monoclonal antibodies on benign and malignant exfoliated mesothelial cells. J. Clin. Path. 40; 1424-1427
2. Tron, V. et al. (1987) CEA and HMFG staining of malignant mesothelioma and adenocarcinoma of the lung. Arch. Pathol. Lab. Med. 111; 291-293
3. MacConald, F. et al. (1988) Expression of CEA, Ca1225, Ca 19-999 and HMFG in ovarian tumors. J. Clin. Path. 41; 260-264
4. Potterr, C. R. et al. (1988) CEA and HMFG in hyperplastic and malignant lesions of the breast. Pathol. Res. Pract. 183; 271-276.

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 **E056 contains Sodium Azide; take adequate precautions!**

E056-230109-2/2

For Research use only. Not for use in diagnostic procedure

