



HISTOPRIME[®]

CatNo E041

Cytokeratin 18

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

Monoclonal Antibody against Cytokeratin 18

Specificity

Epithelial cells and their derivatives typically consist of intermediate filaments composed of approximately 20 different related polypeptides. The molecular weights of these cytokeratins range from 40,000 to 69,000 Da. Each epithelial tissue shows a specific and stable expression pattern of these cytokeratin subunits.

Tumors originating from epithelia retain the cytokeratin expressions of normal epithelial cells. For this reason, carcinomas can be identified and classified using antibodies that specifically react with the various cytokeratins.

Contents

Reagents sufficient for about 50-100 tissue sections
1 dropper bottle **HISTOPRIME[®] Cytokeratin 18** (Bottle, 5 ml)

Application

The monoclonal antibody E041 (CY-90) reacts highly specifically with human cytokeratin18 in a variety of simple epithelia (e.g. with intestinal, bronchial, urinary tract, liver and glandular epithelia of prostate and uterus).

It does not react with squamous epithelia of the following organs: epidermis, hair follicles, sebaceous glands, tongue, esophagus and vagina or with non-epithelial cells.

Fusion Partners

Spleen cells from immunized mice were fused with mouse myeloma cells. Epithelioma (A-431) and mammary carcinoma (MCF-7) cells were used as immunogens. Antibody-producing hybridoma cells were used for ascites retrieval.

E041-230109-1/2





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Characterization

Antigen	Human Cytokeratin 18 Peptide
Specificity	Reacts specifically with human cytokeratin 18
Abnormal Tissues	Carcinomas of simple epithelia (such as intestinal, bronchial, urinary tract, liver, and glandular epithelium).
Clone	CY-90
Isotype	Mouse IgG1
Pretreatment	Proteolytic pretreatment with 0.1% Pronase (CatNo E110), 10 min at room temperature or HISTOSAFE-ENHANCER (CatNo E7000) 10 min at 96-100°C
Incubation Period	1 hour by room temperature
Control Tissue	Colon carcinoma or appendix
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. Moll, R. Franke W. W., Schiller, D. L., Geiger, B. and Krepler, R. The catalog of human cytokeratin polypeptides: Pattern of expression of specific cytokeratins in normal epithelia, tumors and cultured cells. Cell 31; 11-24 (1982)

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 **E041 contains Sodium Azide; take adequate precautions!**

E041-230109-2/2

For Research use only. Not for use in diagnostic procedure

