Cytokeratin (broad spectrum)

ANTISERUM: Monoclonal antiserum. Clone MNF116. Dako (M0821). Isotype: IgG1k

IMMUNOGEN: Crude extract of splenic cells from a nude mouse engrafted with MCF-7 cells.

REACTIVITY ACCORDING TO MANUFACTURER:
- This antibody reacts with an epitope which is present in a wide range of cytokeratins, including keratins 5, 6, 8, 17 and probably 19.
- Normal tissues: broad pattern of reactivity with human epithelial tissues from simple glandular to stratified squamous epithelium, which include epidermis, eccrine sweat gland, mammary gland ducts, tracheal epithelium and amniotic epithelium. Epithelial cells are labeled whether they are ectodermal, endodermal or mesodermal in origin. This antibody stains a small number of non-epithelial cells, e.g. smooth muscle, dendritic cells in lymph nodes and syncytiotrophoblast. It may stain also some cortical neurons and a minority of plasma cells.
- Tumor cells: It reacts with the great majority of benign and malignant epithelial tumors including squamous cell carcinoma, small cell carcinoma and adenocarcinoma as well as mesotheliomas. It is unreactive with a wide range of CNS tumors and non-Hodgkin’s lymphomas.

STAINING PROCEDURE ACCORDING TO MANUFACTURER:
- Formalin-fixed, paraffin-embedded tissues: To improve the staining it is recommended heat-based antigen retrieval or proteolytic treatments. Immunoperoxidase and alkaline phosphatase methods are suitable. Dilution: 1/50-1/100 with LSAB methods.
- Frozen sections and smears: Suitable in acetone-fixed frozen sections and cell smears. Similar dilutions as for paraffin sections.

WORKING DILUTION: 1/800. Pretreatment with proteinase K.

METHOD: LSAB 2-PO. 30 min. RT.

CELLS/TISSUES STAINED (CANINE UNLESS SPECIFIED):
- Skin: Epidermis has strong reaction in basal cells and it fades as the keratinocyte layer is closer to the surface. Also strong reaction in sweat glands, basal cells of sebaceous glands, sebaceous duct epithelium, outer and inner root sheath of the hair follicle. Negative other tissues.

REFERENCES:


