

## HISTOPRIME<sup>®</sup>

**CatNo E078**

## Cytokeratin 14

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

## Monoclonal Antibody against Cytokeratin 14

### Specificity

Cytokeratins represent a group of water-insoluble filament proteins that are part of the cytoskeleton of the epidermis and most epithelial cells. Gel electrophoresis has characterized 20 different cytokeratins to date, which can be divided into basic and acidic subfamilies. Nomenclature according to Moll et al. (1982). CK14 belongs to the acidic cytokeratins (type I) and is characteristic of squamous epithelia.

### Contents

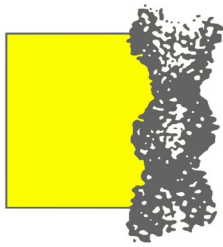
Reagents sufficient for about 50-100 tissue sections  
1 dropper bottle **HISTOPRIME<sup>®</sup> Cytokeratin 14** (Bottle, 5 ml)

### Application

The cytokeratin 14 antibody is suitable for distinguishing squamous epithelia from simple epithelia that do not express this CK.

E078-230109-1/2





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### Characterization

<b>Antigen</b>	C-terminal 15-AS peptide of cytokeratin 14 conjugated to thyroglobulin.
<b>Specificity</b>	Human Cytokeratin 14
<b>Clone</b>	LL002
<b>Isotype</b>	Mouse IgG3
<b>Pretreatment</b>	Pre-treatment with HistoSafe Enhancer Unmasking Solution (LINARIS CatNo E7000) for paraffin sections.
<b>Incubation Period</b>	1 hour by room temperature
<b>Control Tissue</b>	Skin
<b>Application</b>	Ready-to-use in PBS, BSA, NaN <sub>3</sub> (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections.
<b>Recommended Secondary Reagents</b>	<b>Alkaline Phosphatase</b> Vectastain <sup>®</sup> ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector <sup>®</sup> Red (Vector CatNo SK-5100). <b>Peroxidase</b> Vectastain <sup>®</sup> 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. (1982) The Catalog of Human Cytokeratins: Patterns of Expression in Normal Epithelia, Tumors and Cultured Cells. Cell 31; 11 ff.
2. Sun T.-T. Tseng S.C.G., Huang A.J.W., Cooper D., Lynch M.H., Weiss R., Eichner R., and Schermer (1985) Monoclonal antibody studies of keratin expression: A review. In: Intermediate Filaments, Wang E. et al. eds. N.Y. Acad. Sci. 455, pp 307 ff.

**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) E078 contains Sodium Azide; take adequate precautions!**

E078-230109-2/2

**For Research use only. Not for use in diagnostic procedure**

