

## Product datasheet

### anti-Keratin K17 mouse monoclonal, Ks17.E3, lyophilized, purified

#### Short overview

<b>Cat. No.</b>	61036
<b>Quantity</b>	50 µg
<b>Concentration</b>	50 µg/ml after reconstitution with 1 ml dist. water

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Clone</b>	Ks17.E3
<b>Immunogen</b>	Human keratin K17 of 46 kDa
<b>Formulation</b>	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
<b>UniprotID</b>	Q04695 (Human), Q6IFU8 (Rat)
<b>Synonym</b>	Keratin, type I cytoskeletal 17, 39.1, Cytokeratin-17, CK-17, Keratin-17, K17, KRT17
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage before reconstitution</b>	2-8°C until indicated expiry date
<b>Storage after reconstitution</b>	Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	IHC, WB
<b>Reactivity</b>	Human, Rat

#### Applications

<b>Immunohistochemistry (IHC) - frozen</b>	1:10-1:50
<b>Immunohistochemistry (IHC) - paraffin</b>	1:10-1:50 (microwave treatment recommended)
<b>Western Blot (WB)</b>	1:100 (0.5 µg/ml)

#### Background

Ks 17.E3 represents an excellent marker to distinguish myoepithelial cells (positive for K17) from luminal epithelium of various glands (mammary, sweat, salivary, bronchial, tracheal, laryngeal, esophageal) and benign from malignant forms of e.g. mammary gland tumors. In the epidermis suprabasal staining is found only in cornifying regions and in the outer root sheath of hair follicles. Tested reactivity on cultured cell lines: HeLa, A-431. Tumors specifically detected: benign tumors of mammary gland; most malignant forms of mammary tumors are negative for keratin K17.

#### Product images

PROGEN Biotechnik GmbH | Maaßstraße 30 | D-69123 Heidelberg

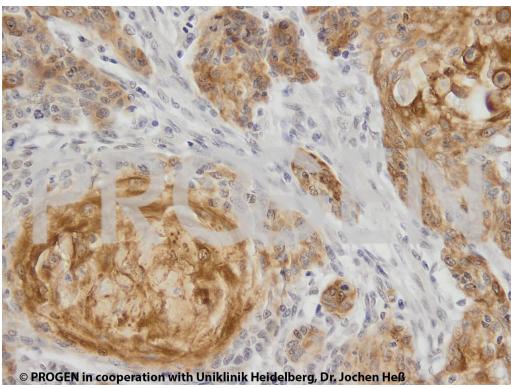
Tel.: +49 (0) 6221 8278-0 | Fax: +49 (0) 6221 8278-24 | Email: info@progen.com | Web: www.progen.com

2024 March 28 / Version: 61036/DS-281022sis | Page 1



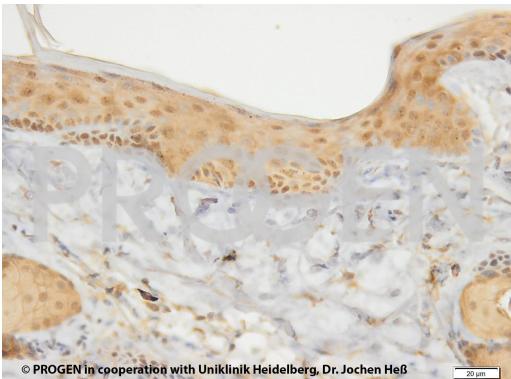
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IHC of rat bladder (courtesy of J.Heß, University Hospital Heidelberg)



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IHC of human HNSCC (courtesy of J.Heß, University Hospital Heidelberg)



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IHC of mouse tail (courtesy of J.Heß, University Hospital Heidelberg)

## References

Publication	Species	Application
<a href="#">Langbein, L., Yoshida, H., Praetzel-Wunder, S., Parry, D. A. &amp; Schweizer, J. The Keratins of the Human Beard Hair Medulla: The Riddle in the Middle. <i>J. Invest. Dermatol.</i> 130, 55–73 (2010).</a>	human	IHC (frozen)
<a href="#">Moll, I. &amp; Moll, R. Comparative cytokeratin analysis of sweat gland ducts and eccrine poromas. <i>Arch. Dermatol. Res.</i> 283, 300–9 (1991).</a>	human	IHC (frozen)
<a href="#">Romih, R., Jezernik, K. &amp; Masera, A. Uroplakins and cytokeratins in the regenerating rat urothelium after sodium saccharin treatment. <i>Histochem. Cell Biol.</i> 109, 263–9 (1998).</a>	rat	IHC (paraffin)
<a href="#">Smedts, F. et al. Keratin expression in cervical cancer. <i>Am. J. Pathol.</i> 141, 497–511 (1992).</a>	human	IHC (frozen)
<a href="#">Guelstein, V. I. et al. Monoclonal antibody mapping of keratins 8 and 17 and of vimentin in normal human mammary gland, benign tumors, dysplasias and breast cancer. <i>Int. J. cancer</i> 42, 147–53 (1988).</a>	human	WB,IHC (frozen)