

Product datasheet

anti-Keratin K17 mouse monoclonal, Ks17.E3, liquid, purified

Short overview

Cat. No.	690036
Quantity	1 ml (50 µg/ml)
Concentration	50 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2b
Clone	Ks17.E3
Immunogen	Human keratin K17 of 46 kDa
Formulation	0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4
UniprotID	Q04695 (Human), Q6IFU8 (Rat)
Synonym	Keratin, type I cytoskeletal 17, 39.1, Cytokeratin-17, CK-17, Keratin-17, K17, KRT17
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	IHC, WB
Reactivity	Human, Rat

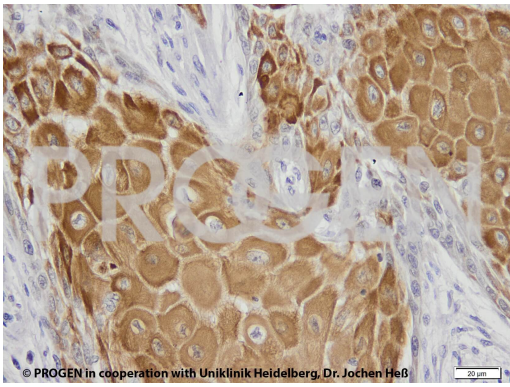
Applications

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

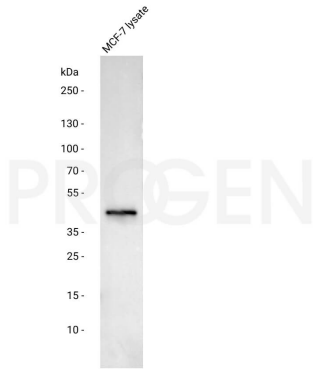
Background

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.

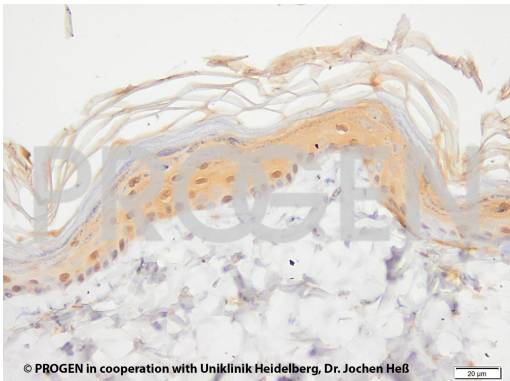
Product images



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



Western-blot analysis of MCF-7 cell lysate with anti-Keratin K17 antibody (Cat. No. 61036). Western-blot analysis was performed on 20 μg MCF-7 lysate. Cells were treated with 3x Laemmli + DDT. The PVDF membrane was blocked with 5% dry milk in PBST for 1 h at RT. The primary antibody anti-Keratin K17 (Cat. No. 61036) was diluted in blocking buffer (1:10,000) and incubated at RT for 1 h. The secondary antibody goat anti-mouse HRP was also diluted in blocking buffer (0.2 μg/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using Pierce™ ECL Western Blotting Substrate.



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

References

Publication	Species	Application
Katagata, Y., Yamazaki, S. & Uchiumi, A., Hsp40 regulates the amount of keratin proteins via ubiquitin-proteasome pathway in cultured human cells., Int J Mol Med 29, 165-8, (2012)		
Langbein, L., Yoshida, H., Praetzel-Wunder, S., Parry, D. A. & Schweizer, J. The Keratins of the Human Beard Hair Medulla: The Riddle in the Middle. J. Invest. Dermatol. 130, 55â€“73 (2010).	human	IHC (frozen)
Iwatsuki, H. & Suda, M., Keratin 20 expressed in the endocrine and exocrine cells of the rabbit duodenum., Acta Histochem Cytochem 40, 123-30, (2007)	rabbit	IHC-P
Langbein, L. et al. Characterization of a Novel Human Type II Epithelial Keratin K1b, Specifically Expressed in Eccrine Sweat Glands. J. Invest. Dermatol. 125, 428â€“444 (2005).	human	IHC (frozen)
Moll, I. et al. Human Merkel cells--aspects of cell biology, distribution and functions. Eur. J. Cell Biol. 84, 259â€“71 (2005).	human	IHC (paraffin)