

Product datasheet

anti-Keratin Type II mouse monoclonal, Ks pan1-8, liquid, purified

Short overview

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|----------------------|-----------------|
| Cat. No. | 690006 |
| Quantity | 1 ml |
| Concentration | 50 µg/ml (50µg) |

Product description

| | |
|----------------------|---|
| Host | Mouse |
| Antibody Type | Monoclonal |
| Isotype | IgG2a |
| Clone | Ks pan1-8 |
| Immunogen | Cytoskeletal proteins from cultured human MCF-7 cells |
| Formulation | PBS pH 7.4 with 0.09% sodium azide and 0.5% BSA |
| 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 | ICC/IF, IHC, WB |
| Reactivity | Amphibia, Bovine, Human, Mouse, Rat |

Applications

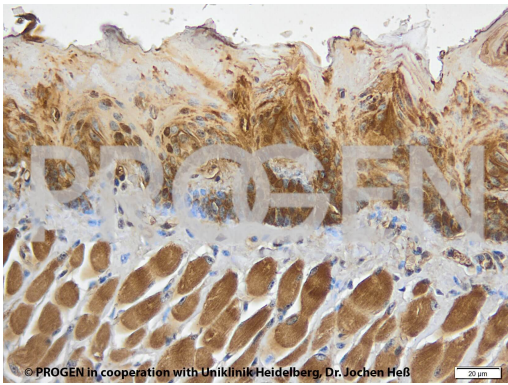
| | |
|--|---|
| Immunocytochemistry (ICC) | Assay dependent |
| Immunohistochemistry (IHC) - frozen | 1:10-1:100 (0.5-5 µg/ml) |
| Immunohistochemistry (IHC) - paraffin | 1:10-1:100 (0.5-5 µg/ml, microwave treatment recommended) |
| Western Blot (WB) | 1:500 (0.1 µg/ml) |

Background

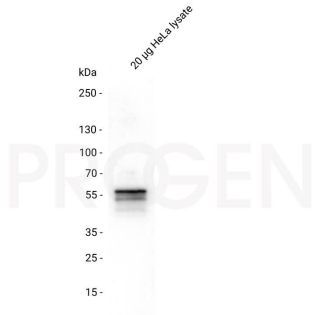
Ks pan1-8 represents an excellent marker for distinguishing carcinomas from non-epithelial tumors. Polypeptides reacting: Mr 52,500-Mr 68,000 keratins (type II keratins K1-K8; formerly also designated cytokeratins 1-8) of human epithelial cells. Tumors specifically detected: all epithelium-derived neoplasms.

Reactivity on cultured cell lines MCF-7, RT 112, HT-29, Detroit 562, RPMI 2650, SSC-12.

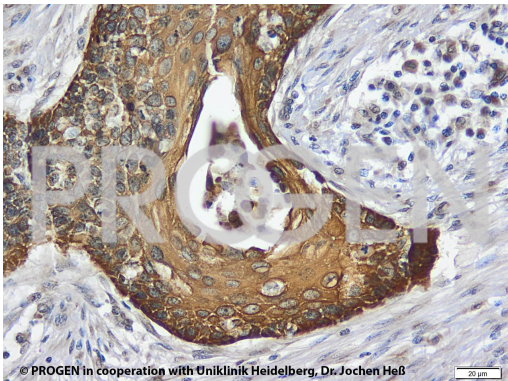
Product images



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



Western blot analysis of HeLa lysate with anti-Keratin Type II antibody. Western blot analysis was performed on 20 µg HeLa lysate. Cells were lysed with RIPA buffer. The PVDF membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-Keratin Type II mouse monoclonal, Ks pan1-8 (Cat. No. 690006) was diluted in blocking buffer (antibody concentration 0.1 µg/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG goat polyclonal, HRP conjugate was also diluted in blocking buffer (antibody concentration 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 human HNSCC tissue (courtesy of J.Heß, University Hospital Heidelberg)

References

| Publication | Species | Application |
|---|----------------|------------------|
| Hatzold, J. et al. Tumor suppression in basal keratinocytes via dual non-cell-autonomous functions of a Na,K-ATPase beta subunit. eLife, 5 (2016). | zebrafish | whole mount |
| Montpetit, A. et al. Disruption of AP1S1, Causing a Novel Neurocutaneous Syndrome, Perturbs Development of the Skin and Spinal Cord. PLoS Genet 4, (2008). | zebrafish | whole mount |
| Kimelman, D. et al. Regulation of posterior body and epidermal morphogenesis in zebrafish by localized Yap1 and Wwtr1. Elife. 6, (2017). | zebrafish | whole mount |
| Kasai, Y. et al. A stable protocol for the fabrication of transplantable human oral mucosal epithelial cell sheets for clinical application. Regen Ther. 14, 87-94(2020). | human | FACS |
| Achtst tter, T., Fouquet, B., Rungger, BraUndele, E. & Frnake, W. W. Cytokeratin filaments and desmosomes in the epithelioid cells of the perineurial and arachnoidal sheaths of some vertebrate species. Differentiation 40, 129-149 (1989). | human, xenopus | WB, IHC (frozen) |