# Product datasheet

## anti-Keratin K6 mouse monoclonal, KA12, liquid, purified

### Short overview

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|---|---|
| **Cat. No.** | 690090 |
| **Quantity** | 1 ml |
| **Concentration** | 50 µg/ml (50µg) |

### Product description

| | |
|---|---|
| **Host** | Mouse |
| **Antibody Type** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone** | Ks6.KA12 |
| **Immunogen** | Keratin K6 of human callus cytoskeletal preparation |
| **Formulation** | PBS pH 7.4 with 0.09% sodium azide and 0.5% BSA |
| **UniprotID** | P02538 (Human), P50446 (Mouse), Q4FZU2 (Rat) |
| **Synomym** | Keratin, type II cytoskeletal 6A, Cytokeratin-6A, CK-6A, Cytokeratin-6D, CK-6D, Keratin-6A, K6A, Type-II keratin Kb6, allergen Hom s 5, KRT6A, K6A, KRT6D |
| **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, Mouse, Rat |

### Applications

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|---|---|
| **Immunohistochemistry (IHC) - frozen** | 1:5-1:50 (1-10 µg/ml) |
| **Immunohistochemistry (IHC) - paraffin** | 1:5-1:50 (1-10 µg/ml, microwave treatment recommended) |
| **Western Blot (WB)** | Assay dependent |

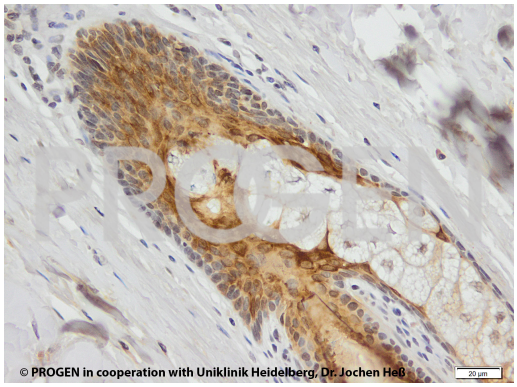
### Background

Ks6.KA12 represents an excellent marker for non-keratinized squamous epithelia and proliferating cells of epidermis (e.g. within psoriatic lesions).

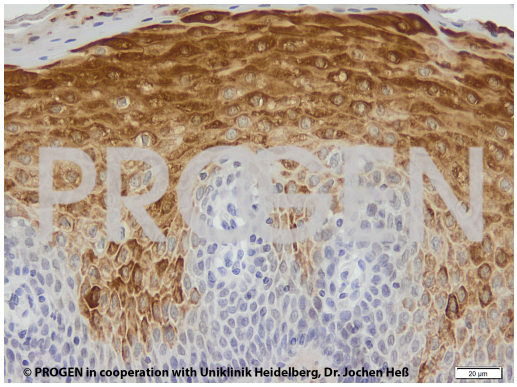
Polypeptide reacting: Mr 56,000 polypeptide (keratin K6; formerly also designated cytokeratin 6) of human squamous epithelia.

Tissues and tumors specifically detected: the antibody is suitable for discrimination of keratinizing and non-keratinizing squamous cell carcinoma versus e.g. poorly differentiated adenocarcinoma.

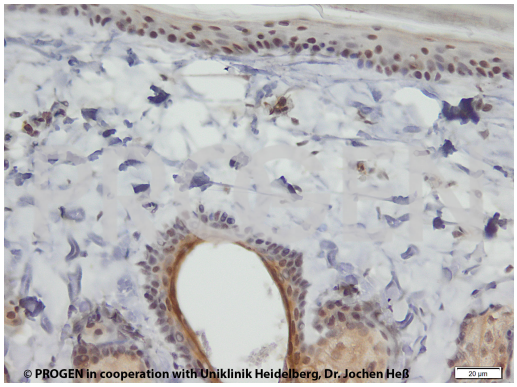
### Product images



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



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



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

## References

| Publication | Species | Application |
|---|---|---|
| Boink, M. et al. Comparison of advanced therapy medicinal product gingiva and skin substitutes and their in vitro wound healing potentials. J.Tissue.Eng.Regen.Med. 12, e1088-e1097 (2018). | human | IHC (paraffin) |
| Smedts, F. et al. Keratin expression in cervical cancer. Am. J. Pathol. 141, 497â€“511 (1992). | human | IHC (frozen) |
| Herrmann, T. et al. Mice with targeted disruption of the fatty acid transport protein 4 (Fatp 4, Slc27a4) gene show features of lethal restrictive dermopathy. J. Cell Biol. 161, 1105â€“1115 (2003). | mouse | IHC (paraffin) |
| Kist, R. et al. The Formation of Endoderm-Derived Taste Sensory Organs Requires a Pax9-Dependent Expansion of Embryonic Taste Bud Progenitor Cells. PLoS Genet. 10, (2014). | mouse | IHC (frozen) |
| Langbein, L. et al. A novel epithelial keratin, hK6irs1, is expressed differentially in all layers of the inner root sheath, including specialized huxley cells (FlÃ¼gelzellen) of the human hair follicle. J. Invest. Dermatol. 118, 789â€“799 (2002). | human | WB |