# Product datasheet

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

### Short overview

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|---|---|
| **Cat. No.** | 61090 |
| **Quantity** | 50 µg |
| **Concentration** | 50 µg/ml after reconstitution with 1 ml dist. water |

### Product description

| | |
|---|---|
| **Host** | Mouse |
| **Antibody Type** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone** | Ks6.KA12 |
| **Immunogen** | Keratin K6 of human callus cytoskeletal preparation |
| **Formulation** | Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4) |
| **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 before reconstitution** | 2-8°C until indicated expiry date |
| **Storage after reconstitution** | Up to 3 months 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 |

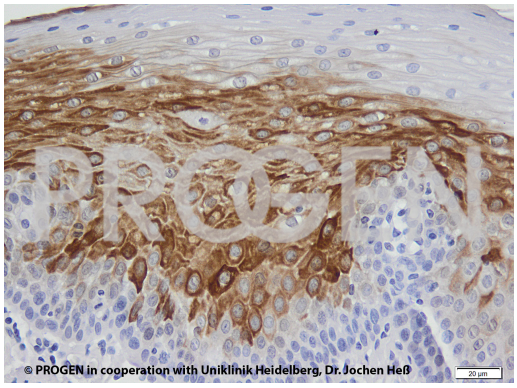
### Background

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

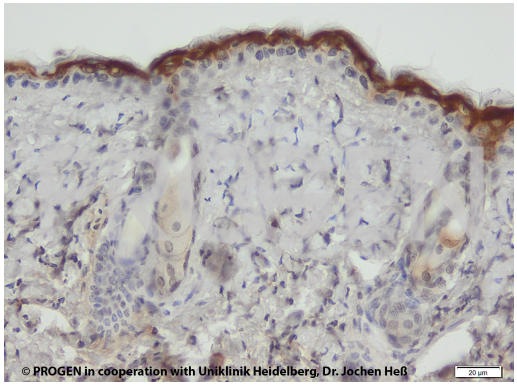
Polypeptide reacting: Mr 56,000 polypeptide (keratin K6; formerly also designated cytokeratin 6) of human squamous epithelia.

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.

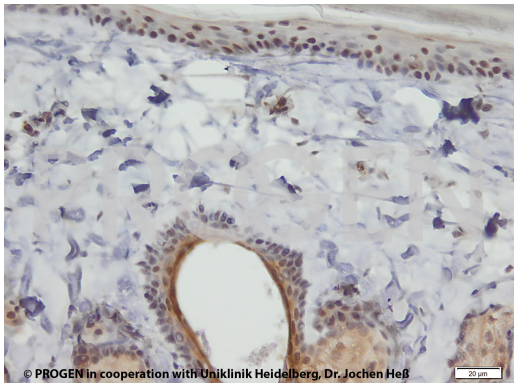
## Product images



Human uvula (courtesy of J.Heß, University Hospital Heidelberg)



IHC on mouse skin (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 |