Product datasheet

anti-Keratin K20 mouse monoclonal, IT-Ks20.8, lyophilized, purified

Short overview

Cat. No.	61026
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a
Clone	IT-Ks20.8
Immunogen	Electrophoretically purified keratin K20 from human intestinal mucosa
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	P35900 (Human), Q9D312 (Mouse)
Synomym	Keratin, type I cytoskeletal 20, Cytokeratin-20, CK-20, Keratin-20, K20, Protein IT, KRT20
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

Applications

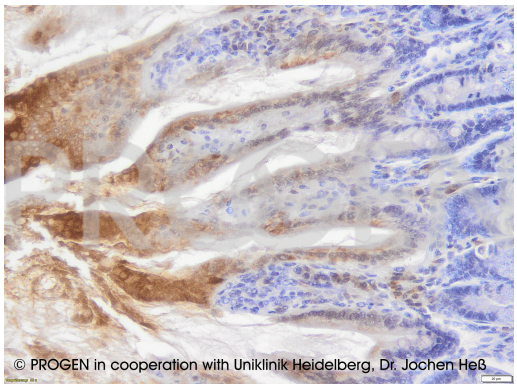
Immunohistochemistry (IHC) - frozen	1:10-1:100 (0.5-5 µg/ml; treatment with 0.02% Triton X-100 recommended)
Immunohistochemistry (IHC) - paraffin	1:10-1:100 (0.5-5 µg/ml; protease treatment and/or microwave treatment recommended)
Western Blot (WB)	1:1,000-1:5,000 (0.01-0.05 µg/ml)

Background

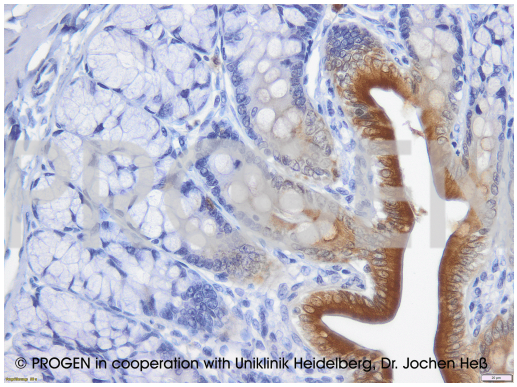
IT-Ks20.8 represents an excellent marker for certain types of carcinomas such as adenocarcinomas of the colon, transitional cell carcinomas of the bladder and Merkel cell tumors of the skin. Very sensitive detection of intestinal and gastric foveolar epithelium, urothelial umbrella cells, Merkel cells of epidermis as well as tumors originating therefrom (e.g. primary and metastatic colorectal carcinoma). Adenocarcinomas of breast, lung, endometrium and ovary (non-mucinous) as well as neuroendocrine tumors of the lung are essentially negative. Polypeptide recognized: protein IT (keratin K20; Mr 46,000; formerly also designated cytokeratin 20).

Tested cultured cell lines: RT-4.

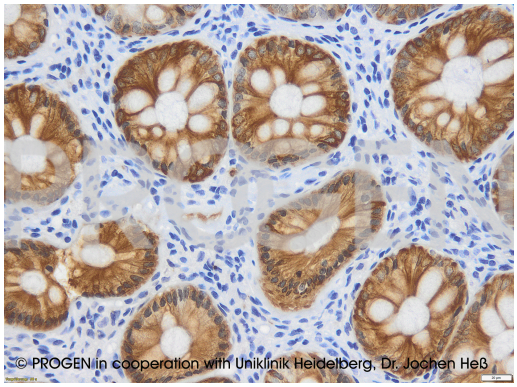
Product images



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



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



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

References

Publication	Species	Application
Flatmark, K. et al. Pseudomyxoma peritonei â€“ two novel orthotopic mouse models portray the PMCA-I histopathologic subtype. BMC Cancer 7, (2007).	human	IHC (paraffin)
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)
Riedel, I. et al. Brenner tumors but not transitional cell carcinomas of the ovary show urothelial differentiation: immunohistochemical staining of urothelial markers, including cytokeratins and uroplakins. Virchows Arch. 438, 181â€“91 (2001).	human	IHC (paraffin)
Romih, R., Jezernik, K. & Masera, A. Uroplakins and cytokeratins in the regenerating rat urothelium after sodium saccharin treatment. Histochem. Cell Biol. 109, 263â€“9 (1998).	rat	IHC (paraffin)
Demirkesen, C., Hoede, N. & Moll, R. Epithelial markers and differentiation in adnexal neoplasms of the skin: an immunohistochemical study including individual cytokeratins. J. Cutan. Pathol. 22, 518â€“35 (1995).	human	IHC (paraffin)