

Product datasheet

anti-Keratin Type I mouse monoclonal, AE1, purified

Short overview

Cat. No.	61804
Quantity	200 µg (1 mg/ml)
Concentration	1 mg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	AE1
Immunogen	Human epidermal keratin (formerly also designated cytokeratin)
Formulation	PBS pH 7.4 with 0.09% sodium azide
Note	Centrifuge prior to opening
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	Bovine, Chicken, Dog, Human, Monkey, Mouse, Rabbit, Rat

Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:200
Immunohistochemistry (IHC) - paraffin	1:200 (protease treatment and/or microwave treatment recommended)
Western Blot (WB)	Assay dependent

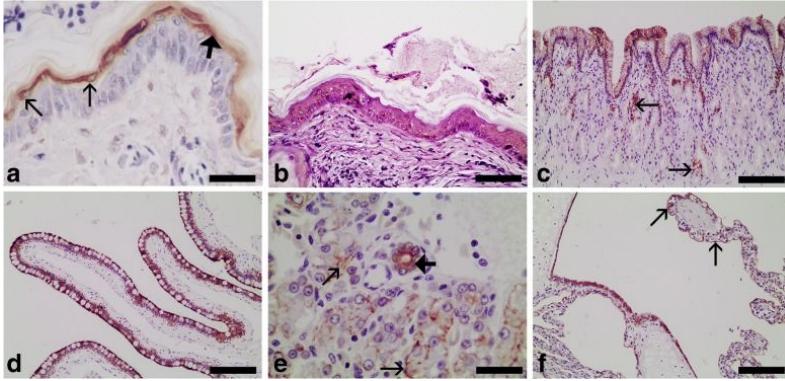
Background

AE 1 represents an excellent marker for distinguishing carcinoma from non-epithelial tumors. Tumors specifically detected: all epithelium-derived tumors. Polypeptide reacting: Mr 40,000; Mr 48,000 and Mr 50,000 polypeptides of human epithelial proteins (keratins nos. K19, K16, K14) and most other acidic (type I) keratins. Reactivity on cultured cell lines: MCF-7, A-431, RT 112.

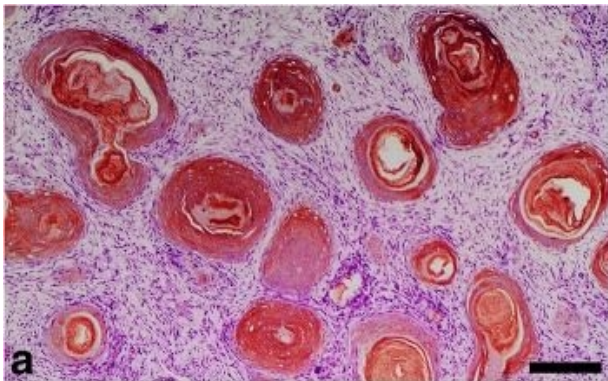
Product images



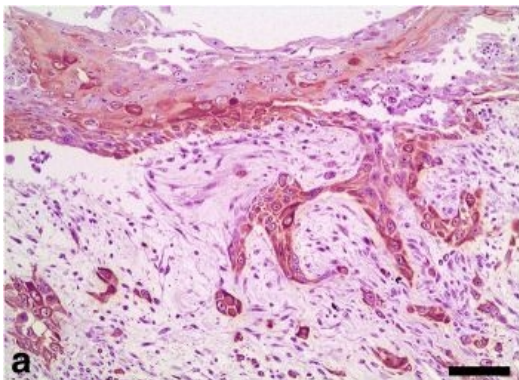
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[OrÃ³s, J., LÃ³pez-YÃ¡ñez, M., et al. Immunohistochemical staining patterns of alpha-keratins in normal tissues from two reptile species: implications for characterization of squamous cell carcinomas. BMC Vet Res. 2018-07-06.](#) Species/Reactant: ReptileApplications: Immunohistochemistry-paraffinImage collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.



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References

Publication	Species	Application
OrÃ³s, J. et al. Immunohistochemical staining patterns of alpha-keratins in normal tissues from two reptile species: implications for characterization of squamous cell carcinomas. BMC.Vet.Res. 14, 219 (2018).	reptile	IHC (paraffin)
Liang, F.-X. et al. Organization of uroplakin subunits: transmembrane topology, pair formation and plaque composition. Biochem. J. 355, 13â€“18 (2001).	mouse	IHC (paraffin)
Heid, H. W., Moll, I. & Franke, W. W. Patterns of expression of trichocytic and epithelial cytokeratins in mammalian tissues. I. Human and bovine hair follicles. Differentiation. 37, 137â€“57 (1988).	human	IHC (frozen)
Chesa, P. G., Rettig, W. J. & Melamed, M. R. Expression of cytokeratins in normal and neoplastic colonic epithelial cells. Implications for cellular differentiation and carcinogenesis. Am. J. Surg. Pathol. 10, 829â€“835 (1986).	human	IHC (paraffin)
Spagnolo, D. V., Michie, S. A., Crabtree, G. S., Warnke, R. A. & Rouse, R. V. Monoclonal anti-keratin (AE1) reactivity in routinely processed tissue from 166 human neoplasms. Am. J. Clin. Pathol. 84, 697â€“704 (1985).	human	IHC (paraffin)