

## Product datasheet

### anti-Keratin Type II mouse monoclonal, AE3, purified

#### Short overview

<b>Cat. No.</b>	61806
<b>Quantity</b>	1 ml (200 µg/ml)
<b>Concentration</b>	200 µg/ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone</b>	AE3
<b>Immunogen</b>	Human epidermal keratin
<b>Formulation</b>	PBS pH 7.4 with 0.09% sodium azide
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Bovine, Chicken, Human, Monkey, Mouse, Rabbit, Rat

#### Applications

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

#### Background

AE 3 represents an excellent marker for distinguishing carcinoma from non-epithelial tumors. Tumors specifically detected: all epithelia and their neoplasms. Polypeptide reacting: Mr 53,000 to Mr 67,000 basic type II keratin polypeptides of human epithelial proteins (keratins - formerly also designated cytokeratins - nos. K1 - K8). Epitope has been mapped to aa 266-299 on alpha-helical rod domain (see Waseem et al., 2004). Reactivity on cultured cell lines: MCF-7, A-431, RT 112.

Waseem A, Karsten U, Leigh IM, Purkis P, Waseem NH, Lane BE: Conformational changes in the rod domain of human keratin 8 following heterotypic association with keratin 18 and its implication for filament stability. *Biochemistry* 43, 1283-1295 (2004)

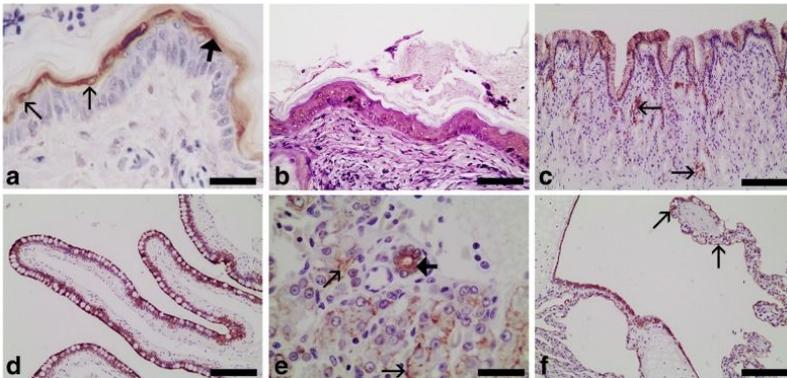
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## Product images

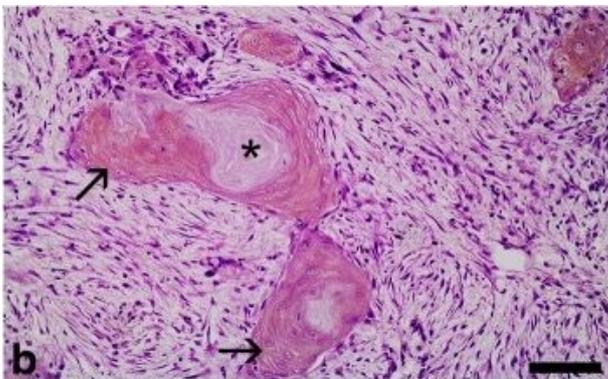


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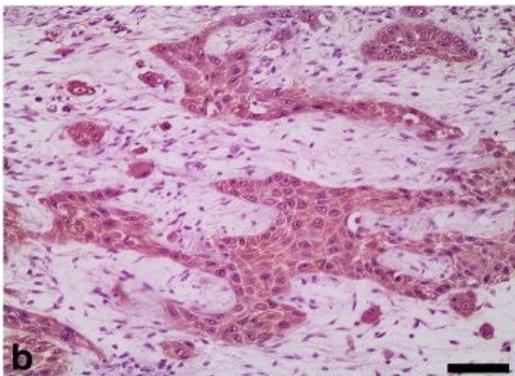
[OrÃ³s, J., LÃ³pez-YÃ¡inez, M., et al. Immunohistochemical staining patterns of alpha-keratins in normal tissues from two reptile species: implications for characterization of squamous cell carcinomas. BMC Vet Res. 2018-07-06.](#) Species/Reactant: ReptileApplications:

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## References

Publication	Species	Application
<a href="#">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).</a>	reptile	IHC (paraffin)
<a href="#">Liang, F.-X. et al. Organization of uroplakin subunits: transmembrane topology, pair formation and plaque composition. Biochem. J. 355, 13â€“18 (2001).</a>	mouse	IHC (paraffin)
<a href="#">Nelson, W. G., Battifora, H. &amp; Sun, T. T. Specific Keratins as Molecular Markers for Neoplasms with a Stratified Epithelial Origin. Cancer Res. 44, 1600â€“1603 (1984).</a>	human	WB
<a href="#">Weiss, R. A., Eichner, R. &amp; Sun, T. T. Monoclonal antibody analysis of keratin expression in epidermal diseases: A 48- and 56-kdalton keratin as molecular markers for hyperproliferative keratinocytes. J. Cell Biol. 98, 1397â€“1406 (1984).</a>	human	WB
<a href="#">Shi, S. R. et al. Immunohistochemical study of nasopharyngeal carcinoma using monoclonal keratin antibodies. Am. J. Pathol. 117, 53â€“63 (1984).</a>	human	IHC (paraffin)