

Product datasheet

anti-Cytokeratin Type I & II, AE1/AE3, purified

Short overview

Cat. No.	61835
Quantity	1 ml (200 µg/ml)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	AE1/AE3
Immunogen	Human epidermal keratin
Formulation	0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4
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
Reactivity	Bovine, Chicken, Guinea pig, Human, Monkey, Mouse, Rabbit, Rat

Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:250-1:750
Immunohistochemistry (IHC) - paraffin	1:250-1:750 (protease treatment and/or microwave treatment recommended)

Background

AE1/AE3 represents an excellent marker for distinguishing carcinomas from non-epithelial tumors; reacts with all epithelium-derived tumors and their neoplasms. Decorates the majority of type I and type II keratins (formerly also designated cytokeratins). Polypeptides reacting: Mr 40 kDa, Mr 48 kDa and Mr 50 kDa polypeptides of human epithelial proteins (keratins nos. K19, K16, K14) and most other acidic (type I) keratins (AE1); most basic (type II) keratins (Mr 52.5-68 kDa) of human epithelia (AE3)

Product images



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References

Publication	Species	Application
Niwano, Y. et al. Protective effects of blue light-blocking shades on phototoxicity in human ocular surface cells. <i>BMJ.Open.Ophthalmol.</i> 4, e000217 (2019)	human	ICC-IF
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. <i>Am. J. Surg. Pathol.</i> 10, 829-835 (1986).	human	IHC
Weiss, R. A., Eichner, R. & Sun, T. T. Monoclonal antibody analysis of keratin expression in epidermal diseases: A 48- and 56-kdalton keratin as molecular markers for hyperproliferative keratinocytes. <i>J. Cell Biol.</i> 98, 1397-1406 (1984).	human	WB
Nelson, W. G., Battifora, H. & Sun, T. T. Specific Keratins as Molecular Markers for Neoplasms with a Stratified Epithelial Origin. <i>Cancer Res.</i> 44, 1600-1603 (1984).	human	WB
Eichner, R., Bonitz, P. & Sun, T. T. Classification of epidermal keratins according to their immunoreactivity, isoelectric point, and mode of expression. <i>J. Cell Biol.</i> 98, 1388-1396 (1984).	human	IF,WB