Mouse Anti-Cytokeratin type I, AE1

Product reference no:	IQ288
Quantity:	0.2ml
Clone no:	AE1
Host/Isotype:	Mouse IgG1
Immunogen:	Human epidermal keratins
Myeloma/fusion partners:	P3 x 63 Ag8 myeloma cells
Specificity:	Most human acidic (type I) keratins K10, K14, K15, K16, K19
Purification:	Protein G
Format:	Purified antibody containing PBS + 0.1% sodium azide
Applications:	Works well for immunblotting, staining of paraffin-section, and EM-localization
Dilutions:	Optimal antibody dilution should be determined by titration, however as guideline try at 1:1000-1:3000 for western blot
Technical notes:	Use bovine serum albumin (instead of milk which containing some keratins) to block nonspecific binding to immunoblots
References:	Tseng, S. C., Jarvinen, M. J., Nelson, W. G., Huang, J. W., Woodcock, M. J., and Sun, T.-T. (1982). Correlation of specific keratins with different types of epithelial differentiation: monoclonal antibody studies. Cell 30, 361-372. Woodcock-Mitchell, J., Eichner, R., Nelson, W. G., and Sun, T.-T. (1982). Immunolocalization of keratin polypeptides in human epidermis using monoclonal antibodies. Journal of Cell Biology 95, 580-588. Sun, T.-T., Eichner, R., Cooper, D., Schermer, A., Nelson, W. G., and Weiss, R. A. (1984). Classification, expression, and possible mechanisms of evolution of mammalian epithelial keratins: a unifying model. In The Cancer Cell: The Transformed Phenotype, A. Levine, W. Topp, G. Vande Woude, and J. D. Watson, eds. (New York, Cold Spring Harbor Lab.), pp. 169-176. Weiss, R. A., Eichner, R., and Sun, T.-T. (1984). Monoclonal antibody analysis of keratin expression in epidermal diseases: a 48- and 56-kdalton keratin as

molecular markers for hyperproliferative keratinocytes. Journal of Cell Biology 98, 1397-1406.

Cooper, D., Schermer, A., and Sun, T.-T. (1985). Classification of human epithelia and their neoplasms using monoclonal antibodies to keratins: strategies, applications, and limitations. [Review]. Laboratory Investigation 52, 243-256.

Cooper, D., and Sun, T.-T. (1986). Monoclonal antibody analysis of bovine epithelial keratins. Specific pairs as defined by coexpression. Journal of Biological Chemistry 261, 4646-4654.

Schermer, A., Galvin, S., and Sun, T.-T. (1986). Differentiation-related expression of a major 64K corneal keratin in vivo and in culture suggests limbal location of corneal epithelial stem cells. Journal of Cell Biology 103, 49-62.

Storage: Store at +4°C for one month, or in small aliquots at -20°C for longer periods. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody

Health & Safety: Products that contain sodium azide (a poisonous and hazardous substance) should be handled by trained staff only.