

Monoclonal Antibody to Human Cytokeratin 1/2, 10/1

Catalog No.:	BM2283
Quantity:	0.2 mg
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	AE2
Immunogen:	Human epidermal keratin
Applications:	Immunohistochemistry on frozen and paraffin embedded sections: 1/50; with paraffin-embedded sections, protease pretreatment is required prior to antibody application. Incubation time: 1h at RT; extended with paraffin-embedded sections (over night at 2 - 8°C). Immunofluorescence. Western Blot. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	AE 2 represents an excellent marker for skin-type differentiation. Reacts with acidic 56.5 kD (nos. 10 and 11) and basic 65-67 kD (nos. 1 and 2) cytokeratins immunolocalized in the suprabasal layers of human epidermis. These keratins are also found in corneal, conjunctival, and oesophageal epithelia when keratinization is observed during vitamin A deficiency. Cross-reaction with filaggrin, a keratin-associated protein believed to play a role in keratin-keratin aggregations.
Storage:	Store the antibody at 2-8°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Moll, R., Franke, W.W., Schiller, D.L., Geiger, B. and Krepler, R.: The catalog of human cytokeratins: Patterns of expression in normal epithelia, tumors and cultured cells. <i>Cell</i> 31, 11-24 (1982) Shi, S.-R., Goodman, M.L., Chan, A.K., Pilch, B.Z., Chen, L.B. and Sun, T.-T.: Immunohistochemical study of nasopharyngeal carcinoma using monoclonal anti-keratin antibodies. <i>Am. J. Pathol.</i> 117, 53-63 (1984) Sun, T.-T., Eichner, R., Cooper, D., Schermer, A., Nelson, W.G. and Weiss, R.A.: Classification, expression and possible mechanisms of evolution of mammalian epithelial keratins: A unifying model. <i>The Cancer Cell</i> 1, 169-176 (1984) Tseng, S.C.G., Jarvinen, M., Nelson, W.G., Huang, J.-W., Woodcock-Mitchell, J. and Sun, T.-T.: Correlation of specific keratins with different types of epithelial differentiation: Monoclonal antibody studies. <i>Cell</i> 30, 361-372 (1982) Tseng, S.C., Hatchell, D., Tierney, N., Huang, A.J.-W. and Sun, T.-T.: Expression of specific keratin markers by rabbit corneal, conjunctival and esophageal epithelia during vitamin A deficiency-induced keratinization. <i>J. Cell Biol.</i> 99, 2279-2286 (1984)

Woodcock-Mitchell, J., Eichner, R., Nelson, W.G. and Sun, T.-T.: Immunolocalization of keratin polypeptides in human epidermis using monoclonal an