

Immunohistology

Cytokeratin Pan, clone KL1



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Cytokeratins (CK) are intermediate filaments that constitute the cytoskeletal structure of virtually all epithelial but also of some non-epithelial cells. They have been divided into basic (CK1 to 8) and acid (CK9 to 20) subfamilies and may also be distinguished by their molecular weights and their tissue distribution. Immunohistochemistry using antibodies against cytokeratins helps to classify undifferentiated neoplasia and metastases with unknown origin.

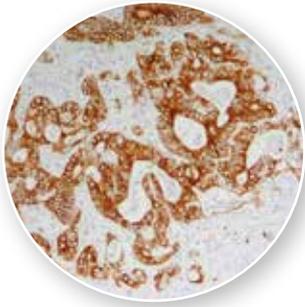
One of the most popular Pan Cytokeratin antibodies is clone KL1. This very sensitive broad spectrum antibody was developed and characterized

extensively already in 1983 at INSERM in Lyon (France).

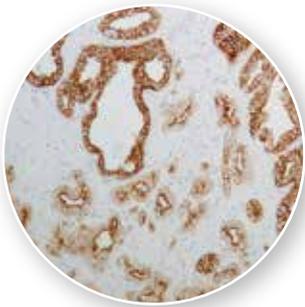
The antibody of clone KL1 has a broad reactivity, detecting cytokeratins 1, 2, 5, 6, 7, 8, 10, 11, 14, 16, 17, 18, and 19*. Detection of cytokeratins with a broad spectrum ("pan-") antibody allows for the staining of epithelial cells in normal and abnormal tissues. Non-epithelial cells and skin basal layers cells do not stain with this antibody.

In contrast to other broad spectrum cytokeratin antibodies, like AE1+AE3, clone KL1 detects cytokeratin 18 and stains most carcinomas of the liver and kidney.

* Reactivity according to Ordóñez (2013): 1, 2, 5, 6, 7, 8, 11, 14, 16, 17, 18



KL1 on colon carcinoma



KL1 on prostate carcinoma

► Product description

Description	CE/IVD	Method	Format	Dilution	Volume	Cat. No.
Cytokeratin (Pan) Clone: KL1 Host: Mouse	✓	P	Ready-to-use	-	6 ml	MSG113
			concentrate	1:100	0.5 ml	MSK113-05
					1 ml	MSK113

► Literature

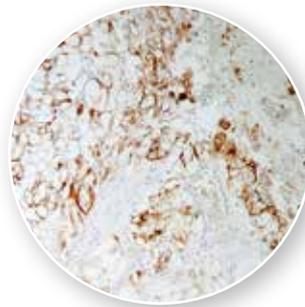
Ordóñez NG. Broad-spectrum immunohistochemical epithelial markers: a review. *Hum Pathol* 44:1195-1215, 2013

Chu PG and Weiss LM. Keratin expression in human tissues and neoplasms. *Histopathol* 40:403-439, 2002

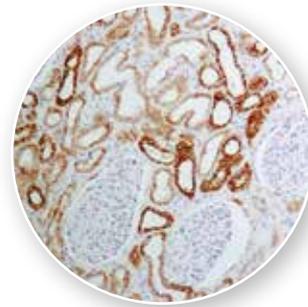
Wells CA *et al.* The immunocytochemical detection of axillary micrometastases in breast cancer. *Brit J Cancer* 50:193-197, 1984

Viac J *et al.* Reactivity pattern of a monoclonal antikeratin antibody (KL1). *J Invest Dermatol* 81:351-354, 1983

Moll R *et al.* The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells. *Cell* 31:11-24, 1982



KL1 on renal cell carcinoma



KL1 on adjacent renal tissue