

**BM5503P****Monoclonal Antibody to Cytokeratin 18 - Purified**

<b>Alternate names:</b>	CK18, CYK18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, K18, KRT18, Keratin 18, Keratin type I cytoskeletal 18, Keratin-18
<b>Quantity:</b>	50 µg
<b>Background:</b>	Cytokeratin 18 is an acidic keratin which is found primarily in non squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas but not in squamous cell carcinomas. Cytokeratin 18 exists in combination with Cytokeratin 8, a basic keratin. Hepatocellular carcinomas have been reportedly defined by the use of antibodies that recognize only Cytokeratins 8 and 18.
<b>Uniprot ID:</b>	<a href="#">P05783</a>
<b>NCBI:</b>	<a href="#">NP_000215.1</a>
<b>GenelD:</b>	<a href="#">3875</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), AM03095PU-N
<b>Clone:</b>	Ks18.27
<b>Immunogen:</b>	Cytoskeletal preparation from tumor cell line MCF-7.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG <b>Purification:</b> Protein A affinity chromatography <b>Buffer System:</b> PBS buffer, pH 7.4 containing 0.09 % sodium azide, 0.5% BSA <b>Reconstitution:</b> Restore in 1 ml dist. water
<b>Applications:</b>	Immunohistochemistry on frozen sections: 1:10; 1 h at RT. Cytological material. Immunoblotting. ELISA. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Ks 18.27 represents an excellent marker to discriminate simple epithelia from those of different origin. Polypeptide reacting: Mr 45,000 polypeptide (keratin K18; formerly also designated cytokeratin 18) of all simple type and complex epithelia. Reacts with human, bovine; negative with mouse. Reacts with MCF-7, HeLa. A-431, PLC, RT 112. All adeno-CA tested; undifferentiated CA; cervix CA; hepatocellular CA. <b>Species:</b> Human, Bovine. Other species not tested.
<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:**

1. Moll R, Achtstätter T, Becht E, Balcarova-Ständer J, Ittensohn M, Franke WW. Cytokeratins in normal and malignant transitional epithelium. Maintenance of expression of urothelial differentiation features in transitional cell carcinomas and bladder carcinoma cell culture lines. *Am J Pathol.* 1988 Jul;132(1):123-44. PubMed PMID: 2456018.
2. Moll R, Franke WW, Schiller DL, Geiger B, Krepler R. The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells. *Cell.* 1982 Nov;31(1):11-24. PubMed PMID: 6186379.
3. Moll R, Schiller DL, Franke WW. Identification of protein IT of the intestinal cytoskeleton as a novel type I cytokeratin with unusual properties and expression patterns. *J Cell Biol.* 1990 Aug;111(2):567-80. PubMed PMID: 1696264.