

**BM5152P****Monoclonal Antibody to basic Cytokeratin - Purified**

<b>Quantity:</b>	50 µg
<b>Background:</b>	Cytokeratins are intermediate filament keratins found in the intracytoplasmic cytoskeleton of epithelial tissue. There are two types of Cytokeratins: the low weight, acidic type I cytokeratins and the high weight, basic or neutral type II. Cytokeratins are usually found in pairs comprising a type I Cytokeratin and a type II cytokeratin. The high molecular weight cytokeratins, which are the basic or neutral cytokeratins, comprise subtypes CK1 (67), CK2 (65.5), CK3 (64), CK4 (59), CK5 (58), CK6 (56), CK7 (54), CK8 (52.5) and CK9. The low molecular weight cytokeratins, which are the acidic cytokeratins, comprise subtypes CK10 (56.5), CK12 (56), CK13 (53), CK14 (50), CK16 (48), CK17 (46), CK18 (45), CK19 (48) and CK20 (46).
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Recommended Isotype Controls:</b>	AM03096PU-N
<b>Clone:</b>	Ks pan 1-8
<b>Immunogen:</b>	Cytoskeletal proteins from cultured Human MCF-7 cells
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction <b>Purification:</b> Affinity Chromatography on Protein A <b>Buffer System:</b> Final solution contains PBS, pH 7.4 with 0.09% Sodium Azide as preservative and 0.5% BSA as stabilizer <b>Reconstitution:</b> Restore in 1 ml distilled water
<b>Applications:</b>	<b>Immunoblotting.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Frozen and cytological material.</b> <i>Working Dilution:</i> 1/10 with PBS, pH 7.4 for Immunohistochemistry. <i>Incubation Time:</i> 1h at RT. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody represents an excellent marker for distinguishing carcinomas from non-epithelial tumors. <b>Polypeptides Reacting:</b> Mr 52 500-Mr 68 000 keratins (type II keratins K1-K8; formerly also designated Cytokeratins 1-8) of Human epithelial cells. <b>Tumors Specifically Detected:</b> All epithelium-derived neoplasms. <b>Tested Reactivities on Cultured Cell Lines:</b> MCF-7, RT 112, HT-29, Detroit 562, RPMI 2650, SSC-12, Bovine BMGE+H, BMGE-H, MDBK.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, Bovine, Rat, Amphibia.

**Storage:**

Store lyophilized at 2-8°C for 6 months or at -20°C long term.  
After reconstitution store the antibody undiluted at 2-8°C for one month  
or (in aliquots) at -20°C long term.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

1. Achtstätter T, Fouquet B, Rungger-Brändle E, Franke WW. Cytokeratin filaments and desmosomes in the epithelioid cells of the perineurial and arachnoidal sheaths of some vertebrate species. *Differentiation*. 1989 May;40(2):129-49. PubMed PMID: 2474473.
2. Gould VE, Koukoulis GK, Jansson DS, Nagle RB, Franke WW, Moll R. Coexpression patterns of vimentin and glial filament protein with cytokeratins in the normal, hyperplastic, and neoplastic breast. *Am J Pathol*. 1990 Nov;137(5):1143-55. PubMed PMID: 1700618.
3. Heid HW, Moll I, Franke WW. Patterns of expression of trichocytic and epithelial cytokeratins in mammalian tissues. I. Human and bovine hair follicles. *Differentiation*. 1988;37(2):137-57. PubMed PMID: 2456239.
4. 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.
5. 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.