

**AM10031FC-S****Monoclonal Antibody to pan Cytokeratin - FITC**

<b>Alternate names:</b>	Cytokeratin pan-reactive, pan Keratin
<b>Quantity:</b>	0.5 ml
<b>Concentration:</b>	1.2 mg/ml
<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 / IgG1
<b>Recommended Isotype Controls:</b>	SM10F (for use in human samples), AM03095PU-N
<b>Clone:</b>	cocktail
<b>Immunogen:</b>	Human epidermal keratin. <b>Remarks: <i>Molecular Weight of Antigen:</i></b> CK1 (67), CK2 (65.5), CK3 (64), CK4 (59) CK5 (58), CK6 (56), CK8 (52.5), CK10 (56.5), CK13 (54) CK14 (50), CK15 (50), CK16 (48), CK18 (45), CK 19 (40).
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative. <b>Label:</b> FITC
<b>Applications:</b>	<b>Immunofluorescence:</b> 10-20 µg/ml (1/10-1/20), incubate for 2 hours in the dark at RT or it can also be incubated overnight at 4°C. <b>Flow Cytometry:</b> 0.2-1.0 µg/0.1 ml (1/200-1/1,000) (Not tested in our lab). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes cytokeratins CK1 (67), CK2 (65.5), CK3 (64), CK4 (59) CK5 (58), CK6 (56), CK8 (52.5), CK10 (56.5), CK13 (54) CK14 (50), CK15 (50), CK16 (48), CK18 (45), CK 19 (40). <b>Cellular Localization:</b> Cytoplasmic. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:**

1. 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.
2. Sun TT, Tseng SC, Huang AJ, Cooper D, Schermer A, Lynch MH, et al. Monoclonal antibody studies of mammalian epithelial keratins: a review. *Ann N Y Acad Sci*. 1985;455:307-29. PubMed PMID: 2417518.
3. Tseng SC, Jarvinen MJ, Nelson WG, Huang JW, Woodcock-Mitchell J, Sun TT. Correlation of specific keratins with different types of epithelial differentiation: monoclonal antibody studies. *Cell*. 1982 Sep;30(2):361-72. PubMed PMID: 6183000.
4. Kuraguchi M, Wang XP, Bronson RT, Rothenberg R, Ohene-Baah NY, Lund JJ, et al. Adenomatous polyposis coli (APC) is required for normal development of skin and thymus. *PLoS Genet*. 2006 Sep 15;2(9):e146. Epub 2006 Jul 28. PubMed PMID: 17002498.
5. Battifora H, Sheibani K, Tubbs RR, Kopinski MI, Sun TT. Antikeratin antibodies in tumor diagnosis. Distinction between seminoma and embryonal carcinoma. *Cancer*. 1984 Sep 1;54(5):843-8. PubMed PMID: 6204739.