

## Monoclonal Antibody to Cytokeratin 18 - FITC

<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>Catalog No.:</b>	AM10025FC-S
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.2 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 cyto keratins and the high weight, basic or neutral type II. Cytokeratins are usually found in pairs comprising a type I Cytokeratin and a type II cyto keratin. The high molecular weight cyto keratins, which are the basic or neutral cyto keratins, comprise subtypes CK1, CK2, CK3, CK4, CK5, CK6, CK7, CK8 and CK9. The low molecular weight cyto keratins, which are the acidic cyto keratins, comprise subtypes CK10, CK12, CK13, CK14, CK16, CK17, CK18, CK19 and CK20. GI tract contain both CK 8 and CK18 but not CK 14. Cytokeratin is expressed in GI and respiratory tract, mesothelial cells, endocrine and exocrine tissues.
<b>Uniprot ID:</b>	<a href="#">P05783</a>
<b>NCBI:</b>	<a href="#">NP_000215.1</a>
<b>GeneID:</b>	<a href="#">3875</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	CK209
<b>Immunogen:</b>	Human breast cancer PMC 42 cells <b>Remarks: Molecular weight of antigen:</b> 45 kDa
<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>	Suitable for <b>Immunohistochemistry</b> and <b>Immunocytochemistry</b> (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears). For IHC dilute concentrated antibody at 1/50-1/100, use streptavidin~biotin system or polymer system, incubate 30 minutes at RT. Antigen retriever like Citrate enhances the staining of FFPE tissue sections (Boil tissue in 10 mM citrate, pH 6.0 for 10-15 minutes followed by cooling for 10-15 minutes at RT). <b>Immunofluorescence:</b> 10-20 µg/ml (1/10-1/20), incubate for 2 hours in the dark at RT or Overnight at 4°C. <b>Flow Cytometry:</b> 0.2-1.0 µg/0.1 ml (1/200-1/1,000). <i>Recommended Positive Control:</i> Human skin, breast, lung ca.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

This antibody recognises Cytokeratin 18 (CK 18).  
Varieties of simple epithelia including glandular but not stratified squamous epithelia are detected by this antibody.

**Species Reactivity:** Tested: Human.

**Storage:**

Store the antibody 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 et al Cell, 31: 11-24, (1982).
2. Lauerova, L. Hybridoma. 7: 495-504, 1988.
3. Gonzalez, JJ et. al. Hepatogastroenterology. 54: 2266-2271, 2007.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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