

A7-106-C025

## Monoclonal Antibody to Cytokeratin 18 Alexa Fluor® 700 conjugated (0.025 mg)

<b>Clone:</b>	C-04
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody C-04 reacts with Cytokeratin 18 (45 kDa), a member of intermediate filaments subfamily represented in epithelial tissues.
<b>Immunogen:</b>	Cytoskeleton preparation of epidermal carcinoma cell line A431.
<b>Species Reactivity:</b>	Mammalian
<b>Preparation:</b>	The purified antibody is conjugated with Alexa Fluor® 700 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Concentration:</b>	0.1 mg/ml
<b>Storage Buffer:</b>	The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis. It is recommended to use 5-10 µl of antibody conjugate per 10 <sup>6</sup> cells (1000 µl cell suspension). Since applications vary, the reagent should be titrated for each particular testing system.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	Cytokeratins are a subfamily of intermediate filaments and characterized by remarkable biochemical diversity. Cytokeratins are represented in epithelial tissues by at least 20 different polypeptides, molecular weight between 40 kDa and 68 kDa. The individual cytokeratin polypeptides are designated 1 to 20 and divided into the type I (acidic cytokeratins 9-20) and type II (basic to neutral cytokeratins 1-8) families. Cytokeratins 18 belongs to type I family (acidic cytokeratins).

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

- \*Taylor-Papadimitriou J, Stampfer M, Bartek J, Lewis A, Boshell M, Lane EB, Leigh IM: Keratin expression in human mammary epithelial cells cultured from normal and malignant tissue: relation to in vivo phenotypes and influence of medium. *J Cell Sci.* 1989 Nov;94 ( Pt 3):403-13.
- \*Kovarik J. et al., *J. Tumor Marker Oncol.* 5, 219 (1990).
- \*Cap J, Cerman J, Nemecek S, Marekova M, Hana V, Frysak Z: The influence of treatment with somatostatin analogues on morphology, proliferative and apoptotic activity in GH-secreting pituitary adenomas. *J Clin Neurosci.* 2003 Jul;10(4):444-8.
- \*Lauerova L, Kovarik J, Bartek J, Rejthar A, Vojtesek B: Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule. *Hybridoma.* 1988 Oct;7(5):495-504.
- \*Kovarik J, Rejthar A, Lauerova L, Vojtesek B, Bartkova J: Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread. *Int J Cancer Suppl.* 1988;3:50-5.
- \*Vojtesek B, Staskova Z, Nenutil R, Lauerova L, Kovarik J, Rejthar A, Bartkova J, Bartek J: Monoclonal antibodies recognizing different epitopes of cytokeratin No.18. *Folia Biol (Praha).* 1989;35(6):373-82.
- \*Bartek J, Vojtesek B, Staskova Z, Bartkova J, Kerekes Z, Rejthar A, Kovarik J: A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology. *J Pathol.* 1991 Jul;164(3):215-24.

This product is provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Exbio Praha, a.s., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity), including use in flow cytometry that does not utilize a bead based array, but excluding use in combination with microarrays or High Content Screening. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.

**For laboratory research only, not for drug, diagnostic or other use.**