

Datasheet for ABIN192045

anti-Cytokeratin 18 antibody (FITC)



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Overview

Quantity:	100 µg
Target:	Cytokeratin 18 (KRT18)
Reactivity:	Mammalian
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 18 antibody is conjugated to FITC
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purpose:	Anti-Cytokeratin 18 FITC
Immunogen:	Cytoskeleton preparation of epidermal carcinoma cell line A431.
Clone:	C-04
Isotype:	IgG1
Specificity:	The antibody C-04 reacts with cytokeratin 18 (45 kDa intracellular antigen), a member of intermediate filaments subfamily represented in epithelial tissues.
Cross-Reactivity (Details):	Mammalian
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Cytokeratin 18 (KRT18)
Alternative Name:	Cytokeratin 18
Background:	Keratin 18,Cytokeratins are a subfamily of intermediate filaments and are characterized by remarkable biochemical diversity. They 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. Cytokeratin 18 belongs to type I family (acidic cytokeratins),K18, CK18, CYK18, KRT18
Gene ID:	3875
UniProt:	P05783
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

Handling

Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Bártek, Vojtšek, Stasková, Bártková, Kerekés, Rejthar, Kovarik: "A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology." in: The Journal
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of pathology, Vol. 164, Issue 3, pp. 215-24, (1991) ([PubMed](#)).

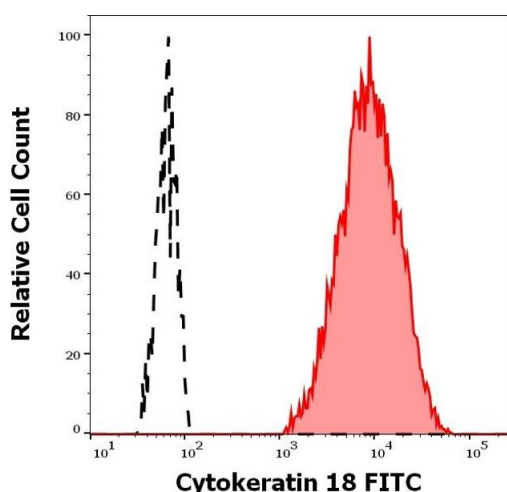
Vojtšek, Stasková, Nenutil, Lauerová, Kovarik, Rejthar, Bártková, Bártek: "Monoclonal antibodies recognizing different epitopes of cytokeratin No.18." in: **Folia biologica**, Vol. 35, Issue 6, pp. 373-82, (1990) ([PubMed](#)).

Kovarik, Rejthar, Lauerová, Vojtšek, Bártková: "Monoclonal antibodies against individual cytokeratins in the detection of metastatic spread." in: **International journal of cancer**.

Supplement = Journal international du cancer. Supplement, Vol. 3, pp. 50-5, (1989) ([PubMed](#)).

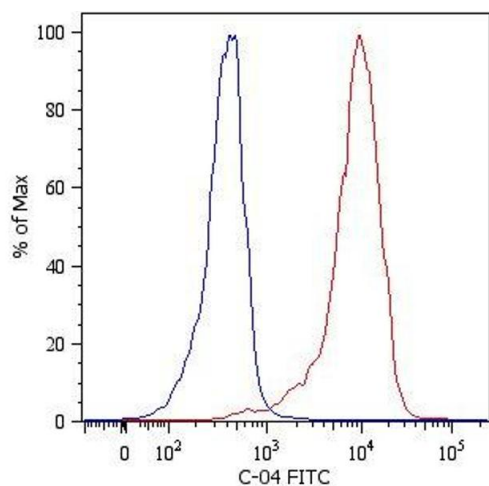
Lauerová, Kovarik, Bártek, Rejthar, Vojtšek: "Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule." in: **Hybridoma**, Vol. 7, Issue 5, pp. 495-504, (1989) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood spiked with HeLa cells stained using anti-Cytokeratin 18 (C-04) FITC antibody (concentration in sample 1.67 µg/ml).



Flow Cytometry

Image 2. Intracellular Flow Cytometry analysis Intracellular flow cytometry analysis of cytokeratin expression in HeLa human cervix carcinoma cell line using anti-Cytokeratin 18 (C-04) FITC. Overlay with Isotype mouse IgG1 control (PPV-06).