Datasheet for ABIN94280

anti-Cytokeratin 18 antibody (Biotin)

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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 Biotin
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Cytokeratin 18 Biotin
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 biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

Target:	Cytokeratin 18 (KRT18)
Alternative Name:	Cytokeratin 18 (KRT18 Products)
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: 1-4 µg/mL. Intracellular staining. Western blotting: Recommended dilution: 1-2 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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. Do not freeze.

Publications

Product cited in:	Bártek, Vojt?sek, Stasková, Bártková, Kerekés, Rejthar, Kovarík: "A series of 14 new monoclonal

Publications

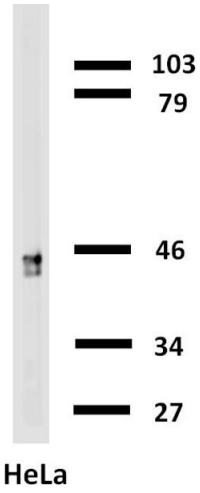
antibodies to keratins: characterization and value in diagnostic histopathology." in: **The Journal of pathology**, Vol. 164, Issue 3, pp. 215-24, (1991) (PubMed).

Vojt?sek, Stasková, Nenutil, Lauerová, Kovarík, Rejthar, Bártková, Bártek: "Monoclonal antibodies recognizing different epitopes of cytokeratin No.18." in: **Folia biologica**, Vol. 35, Issue 6, pp. 373-82, (1990) (PubMed).

Kovarík, Rejthar, Lauerová, Vojt?sek, 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).

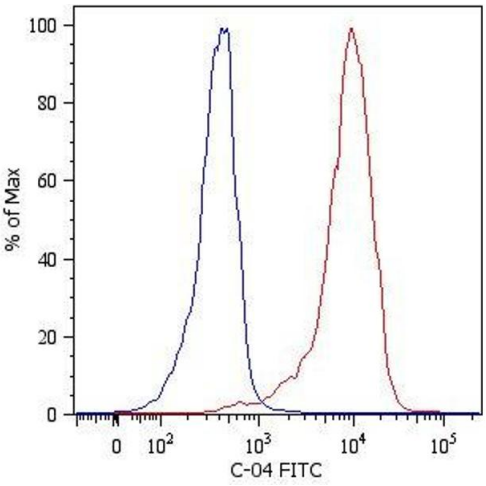
Lauerová, Kovarik, Bártek, Rejthar, Vojt?sek: "Novel monoclonal antibodies defining epitope of human cytokeratin 18 molecule." in: **Hybridoma**, Vol. 7, Issue 5, pp. 495-504, (1989) (PubMed).

Images



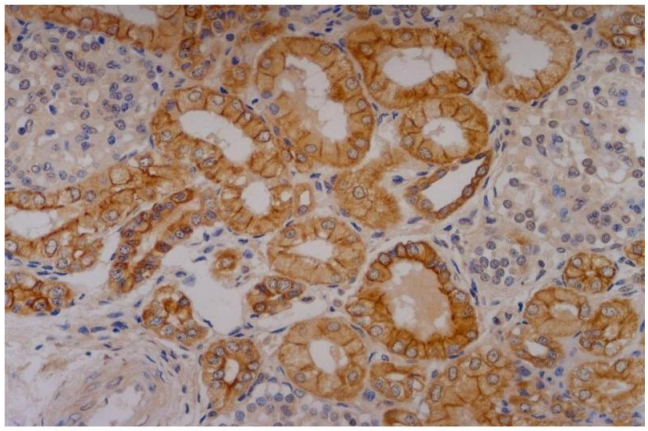
Western Blotting

Image 1. Western blotting analysis of human cytokeratin 18 using mouse monoclonal antibody C-04 on lysates of HT-29 cell line and MOLT-4 cell line (cytokeratin non-expressing cell line, negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of biotinylated mouse anti-cytokeratin 18 monoclonal antibody followed by IRDye800-conjugated streptavidin. Cytokeratin 18 was detected at approximately 46 kDa, and its proteolytic fragment at approximately 25 kDa.



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 () FITC. Overlay with Isotype mouse IgG1 control (PPV-06).



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded sections (kidney) Immunohistochemistry staining of human kidney (paraffin-embedded sections) with anti-Cytokeratin 18 (C-04).

Please check the product details page for more images. Overall 4 images are available for ABIN94280.