

Datasheet for ABIN94282
anti-Cytokeratin 18 antibody

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Overview

Quantity:	0.1 mg
Target:	Cytokeratin 18 (KRT18)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 18 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Human breast carcinoma cell line PMC-42.
Clone:	DC-10
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody DC-10 reacts with cytokeratin 18 (45 kDa). Cytokeratins are members of intermediate filaments subfamily of intracellular proteins, represented in epithelial tissues.
No Cross-Reactivity:	Cow, Dog, Hamster, Mouse, Pig, Rat, Sheep
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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:	<p>Western blotting: Recommended dilution: 1-2 µg/mL.</p> <p>Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, positive tissue: colon, skin.</p> <p>Immunocytochemistry: positive control: MCF-7 human breast adenocarcinoma cell line, HeLa human cervix carcinoma cell line.</p> <p>ELISA: Positive control: MCF-7 human breast adenocarcinoma cell line, the antibody DC-10 has been tested as the detection antibody in a sandwich ELISA for analysis of Cytokeratin 18 in combination with the antibody C-04 (cat. no. 11-106-C100).</p> <p>Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.</p>
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.

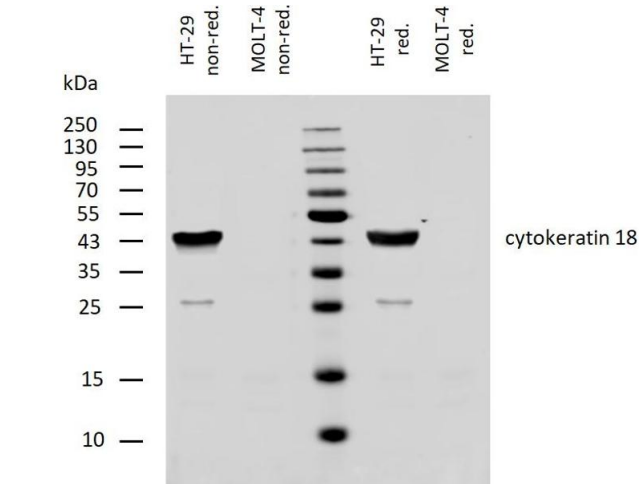
Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

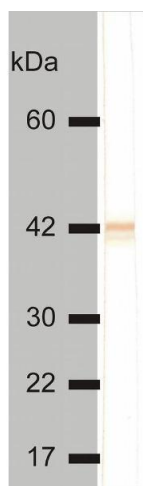
Product cited in:	<p>Ta: "Primary human hepatocytes on biodegradable poly(l-lactic acid) matrices: a promising model for improving transplantation efficiency with tissue engineering." in: Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society, Vol. 17, Issue 2, pp. 104-14, (2011) (PubMed).</p> <p>Vojtšek, Stasková, Nenutil, Lauerová, Kovarik, Rejthar, Bárteková, Bártek: "Monoclonal antibodies recognizing different epitopes of cytokeratin No.18." in: Folia biologica, Vol. 35, Issue 6, pp. 373-82, (1990) (PubMed).</p> <p>Kovarik, Rejthar, Lauerová, Vojtšek, Bárteková: "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).</p> <p>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).</p>
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Images



Western Blotting

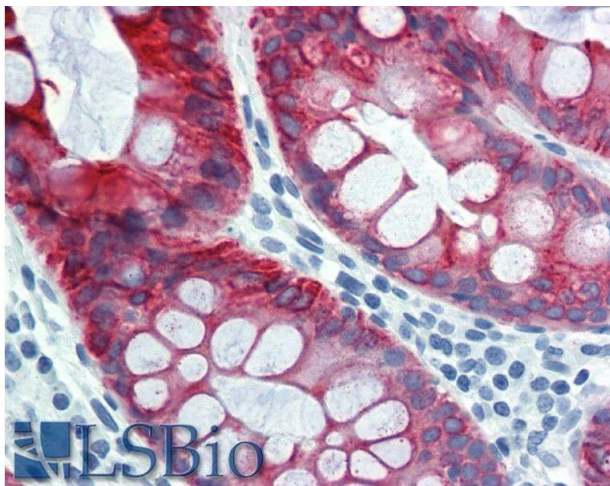
Image 1. Western blotting analysis of human cytokeratin 18 using mouse monoclonal antibody DC-10 on lysates of HT-29 cell line and MOLT-4 cell line (cytokeratin non-expressing cell line, negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-cytokeratin 18 monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for cytokeratin 18 at approximately 46 kDa, and its proteolytic fragment at



approximately 25 kDa.

Western Blotting

Image 2. Detection of cytokeratin 18 in HeLa cell lysate by mouse monoclonal antibody DC-10.



Immunohistochemistry

Image 3. Immunohistochemistry staining of human colon (paraffin sections) using anti-cytokeratin 18 (clone).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN94282.