

Mouse Anti-Cytokeratin 18 [DC10]: MC0112, MC0112RTU7

Intended Use: For Research Use Only

Description: Cytokeratin 18 (CK18) is intermediate filament phosphoglycoprotein that is expressed in simple and glandular and transitional epithelial cells but not in stratified epithelial cells. CK18 is often co-expressed with CK8. CK8/18 is the major keratin pair in simple-type epithelia. Adenocarcinomas originated from simple and glandular epithelium showed CK18 positive staining. In squamous carcinoma, poorly differentiated tumor cells show CK18 reactivity. Loss of CK 18 expression is associated with progression of breast carcinoma.

Specifications:

Clone: DC10
Source: Mouse
Isotype: IgG1
Reactivity: Human
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt., IF, WB
Package:

Description	Catalog No.	Size
Cytokeratin 18 Concentrated	MC0112	1 ml
Cytokeratin 18 Prediluted	MC0112RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Breast, breast cancer
Concentrated Dilution: 50-200
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human colon carcinoma stained with anti-CK18 using DAB

References:

1. Effect of Hypoxia on the Differentiation and the Self-Renewal of Metanephrogenic Mesenchymal Stem Cells. Liu S, et al. Stem Cells Int 2017:7168687, 2017.
2. Scalable Differentiation of Human iPSCs in a Multicellular Spheroid-based 3D Culture into Hepatocyte-like Cells through Direct Wnt/ β -catenin Pathway Inhibition. Pettinato G, et al. Sci Rep 6:32888, 2016.
3. p53 deficiency linked to B cell translocation gene 2 (BTG2) loss enhances metastatic potential by promoting tumor growth in primary and metastatic sites in patient-derived xenograft (PDX) models of triple-negative breast cancer. Powell E, et al. Breast Cancer Res 18:13, 2016.

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