

Mouse Anti-Cytokeratin 8/18 [K8.8&DC10]: MC0764, MC0764RTU7

Intended Use: For Research Use Only

Description: Cytokeratin 8 (CK8) is an intermediate filament protein produced early in embryogenesis. It is the only type-II CK occurring in many simple epithelial cells in respiratory, gastrointestinal, male and female reproductive tracts, and thyroid. CK8 is often co-expressed with Cytokeratin 18. CK8/18 is the major keratin pair in simple-type epithelia, as found in the liver, pancreas, and intestine. The CK8 antibody is used to detect adenocarcinomas of simple epithelium origin. The difference in staining pattern is useful to distinguish ductal (peripheral staining) from lobular (perinuclear staining) breast carcinoma. Cytokeratin 18 (CK18) is an 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:

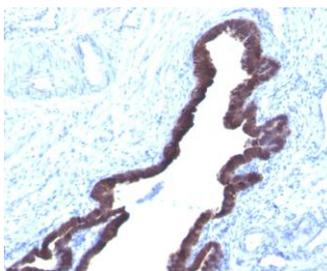
Clone: K8.8&DC10
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Immunogen: Keratin from a human carcinoma (K8.8); PMC-42 human breast carcinoma cells (DC10)
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt., IF, WB
Package:

Description	Catalog No.	Size
Cytokeratin 8/18 Concentrated	MC0764	1 ml
Cytokeratin 8/18 Prediluted	MC0764RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Colon, colon cancer
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 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 ovarian cancer stained with anti-CK8/18 using DAB

References:

1. Isolation and characterization of a new basal-like luminal progenitor in human breast tissue. Bhat V, et al. Stem Cell Res Ther 10:269, 2019.
2. Enabling autologous human liver regeneration with differentiated adipocyte stem cells. Xu D, et al. Cell Transplant 23:1573-84, 2014.

Doc. 100-MC0764
Rev. A