

Mouse anti-Cytokeratin 18 Monoclonal Antibody (Clone: CK 209)

Storage: 2-8°C

Catalog No: M3098	1ml	<input type="checkbox"/>
M3098S	0.2ml	<input type="checkbox"/>
M3098U	6ml	<input type="checkbox"/>

Intended Use and Background:

Mouse anti-Cytokeratin 18 antibody is intended for detection of Cytokeratin 18 antigen of human origin by immunohistochemistry or immunocytochemistry. Cytokeratins are intermediate filament keratins found in the intracytoplasmic cytoskeleton of epithelial tissue. Expression of the cytokeratins is frequently organ or tissue specific. There are two types of cytokeratins: the low weight, acidic type I cytokeratins and the high weight, basic or neutral type II cytokeratins. Cytokeratins are usually found in pairs comprising a type I Cytokeratin and a type II cytokeratin. The high molecular weight cytokeratins, which are the basic or neutral cytokeratins, comprise subtypes CK1, CK2, CK3, CK4, CK5, CK6, CK7, CK8 and CK9. The low molecular weight cytokeratins, which are the acidic cytokeratins, comprise subtypes CK10, CK12, CK 13, CK14, CK16, CK17, CK18, CK19 and CK20. GI tract contain both CK 8 and CK18 but not CK 14. Cytokeratin is expressed in GI and respiratory tract, mesothelial cells, endocrine and exocrine tissues. Varieties of simple epithelia including glandular but not stratified squamous epithelia are detected by this antibody.

Components:

Mouse anti-Cytokeratin 18 antibody is purified from mouse ascite and preserved in PBS buffer containing BSA and 0.1% sodium azide.

Host species: Mouse
Isotype: IgG1/k
Clone: CK 209
Immunogen: Human breast cancer PMC 42 cells
Reacts with: Human, others not tested

Catalog No.	Format	Size
M3098	Concentrate	1 ml
M3098S	Concentrate	0.2ml
M3098U	Ready-to-use	6ml

Positive Control: Human skin, breast, lung carcinoma

Pretreatment required: Heat Induced Epitope Retrieval (HIER) in Citrate buffer/pH6.0 may improve staining intensity.

Cellular Localization: Cytoplasmic

Application: immunohistochemistry (IHC), immunocytochemistry (ICC).

Recommended Protocol:

For concentrate antibody, the working dilution for formalin-fixed paraffin-embedded human tissue section is from 1:50-100 depending on the detection system used. Prediluted antibody is used directly without dilution. The optimal dilution needs to be determined by the investigator.

Manual staining procedure:

1. Deparaffinize slides.
2. Submerge slides in peroxidase quenching solution for 10 minutes and rinse with PBS 3 times, 2 minutes each.
3. Apply serum blocking solution (optional if use polymer detection system)
4. Apply primary antibody and incubate for 30-60 minutes at room temperature and rinse with PBS 3 times, 2 minutes each.
5. Apply secondary antibody conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.

7. Apply chromogen and incubate 5-10 minutes and rinse with PBS.

Precaution:

Wear gloves and take other necessary laboratory safety procedure.

Storage: Store at 2-8 °C.

Remarks: For research use only. Not for diagnostic or therapeutic use.