

DM051-05**Monoclonal Antibody to Cytokeratin 5+6+18 - Supernatant****Alternate names:**

CK18, CK5, CK6, Cytokeratin 18, Cytokeratin 6, K18, K5, K6, KRT-5, KRT-6, KRT-8, KRT5, KRT6, KRT8, Keratin, Keratin, Keratin, type I cytoskeletal 18, type II cytoskeletal 5, type II cytoskeletal 6

Quantity:

0.5 ml

Background:

Cytokeratins, a group of at least 29 different proteins, are characteristic of epithelial and trichocytic cells. Cytokeratins 4, 5, 6 and 8 are members of the type II neutral-to-basic subfamily. Cytokeratin peptide 4 (59 kDa) is the secondary type II keratin expressed in non cornified stratified squamous epithelia. Cytokeratin peptide 5 (58 kDa) is the primary type II keratin in stratified epithelia, while cytokeratin type 8 (52 kDa) is a major type II keratin in simple epithelia. Cytokeratin 6 (56 kDa) is a "hyperproliferation" cytokeratin expressed in tissues with natural or pathological high turnover. Cytokeratins 10, 13 and 18 are members of the type I acidic subfamily. Cytokeratin peptide 10 (56 kDa) is the secondary type I keratin expressed in cornified epithelia. Cytokeratin 13 (54 kDa) is the secondary type I keratin expressed in non-cornified stratified squamous epithelia. Cytokeratin 18 (45 kDa) is the primary type I keratin expressed in simple epithelial cells.

Host / Isotype:

Mouse / IgG1

Clone:

LP34

Immunogen:

Human Keratin

Format:

State: Purified antibody containing Sodium Azide as preservative

Applications:

Immunohistochemistry on Formalin-Fixed Paraffin Embedded Tissue: Use a dilution of 1/25-1/50 in an ABC method (30 minutes at room temperature).

Enzymatic predigestion of paraffin embedded tissues is recommended prior to the immunostaining.

Recommended Positive Control: Skin

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody is of value in the identification of tumor cells as being of epithelial or less commonly of mesothelial origin. It recognizes keratin polypeptide of 45 (keratin 5), 56 (keratin 6) and 58 kD (keratin 18).

It shows a broad pattern of reactivity with epithelial tissues from simple glandular epithelia to stratified squamous epithelia.

Cellular Localization: Cytoplasmic

Species: Human, Bovine and Rat.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Gatter et al. J Clin Pathol 35: 1253, 1982.
2. Gosh et al. Br J Haematol 61: 21, 1985.

Pictures:

Formalin fixed paraffin embedded human skin stained with Cytokeratin 6/18 antibody (Cat.#DM051).

