

DM188**Monoclonal Antibody to Cytokeratin 19 - Supernatant**

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| Alternate names: | CK19, Cytokeratin-19, K19, KRT19, Keratin type I cytoskeletal 19, Keratin-19 |
| Quantity: | 1 ml |
| Background: | Keratin-19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. Keratin 19 is not expressed in hepatocytes, therefore, antibody to keratin 19 is useful in the identification of liver metastasis. The degree of keratin 19 positivity in breast cancer distinguishes malignant from benign tumours. Keratin 19 is often co-expressed with keratin 7. |
| Uniprot ID: | P08727 |
| NCBI: | NP_002267.2 |
| GeneID: | 3880 |
| Host / Isotype: | Mouse / IgG1 |
| Clone: | RCK108 |
| Immunogen: | Human bladder cell line T24 |
| Format: | State: Liquid Tissue Culture Supernatant containing 0.09% Sodium Azide |
| Applications: | Western Blot. Immunofluorescence. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: No proteolytic pretreatment required, Optimal results are obtained when using the microwave retrieval method in citrate buffer. <i>Working Dilution:</i> 1/10-1/20 (ABC Method) for Immunohistochemistry. <i>Dilution Buffer:</i> Dilute immediately with PBS or TBS. <i>Positive Control:</i> Glandular epithelia. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody specifically reacts with keratin K19 (formerly also designated cytokeratin 19; 40 kD protein in immunoblotting), found in most glandular simple type epithelia and tumors derived therefrom (adenocarcinoma), most squamous cell carcinoma. |
| Species Reactivity: | Tested: Human, most Mammals. Negative with Mouse and Rat. |

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. Kwaspen FH, Smedts FM, Broos A, Bulten H, Debie WM, Ramaekers FC. Reproducible and highly sensitive detection of the broad spectrum epithelial marker keratin 19 in routine cancer diagnosis. *Histopathology*. 1997 Dec;31(6):503-16. PubMed PMID: 9447381.
2. Schaafsma HE, Ramaekers FC. Cytokeratin subtyping in normal and neoplastic epithelium: basic principles and diagnostic applications. *Pathol Annu*. 1994;29 Pt 1:21-62. PubMed PMID: 7510383.
3. Smedts F, Ramaekers F, Robben H, Pruszczynski M, van Muijen G, Lane B, et al. Changing patterns of keratin expression during progression of cervical intraepithelial neoplasia. *Am J Pathol*. 1990 Mar;136(3):657-68. PubMed PMID: 1690513.