

DM3066P**Monoclonal Antibody to Cytokeratin 14 - Supernatant****Alternate names:**

CK14, Cytokeratin-14, K14, KRT14, Keratin 14, Keratin Type I Cytoskeletal 14

Quantity:

1 ml

Background:

Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in human epithelial tissues by at least 20 different polypeptides. They range in molecular weight between 40 kDa and 68 kDa and isoelectric pH between 4.9 - 7.8. The individual human cytokeratins are numbered 1 to 20.

The various epithelia in the human body usually express cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.

Uniprot ID:[P02533](#)**NCBI:**[NP_000517.2](#)**GeneID:**[3861](#)**Host / Isotype:**

Mouse / IgG1

Clone:

SPK-14

Immunogen:

Synthetic peptide corresponding to the carboxy-terminal sequence of Human Cytokeratin 14 coupled to keyhole limpet hemocyanin.

AA Sequence:

KVVSTHEQVLRTKN

Format:**State:** Liquid Culture Supernatant**Preservatives:** 0.09% Sodium Azide**Applications:****Immunocytochemistry.****Immunohistochemistry on Frozen Sections:** 1/100-1/200.**Immunoblotting:** 1/100-1/1000.**Flow Cytometry:** 1/100-1/200.

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

Specificity:

SPK-14 reacts exclusively with Cytokeratin 14 which is present in basal cell compartments of stratified and combined epithelia.

Species Reactivity:**Tested:** Feline, Human, Porcine, Canine.**Storage:**

Store 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. Ivanyi D, Minke JM, Hageman C, Groeneveld E, van Doornewaard G. Patterns of expression of feline cytokeratins in healthy epithelia and mammary carcinoma cells. *Am J Vet Res.* 1992 Mar;53(3):304-14. PubMed PMID: 1375818.
2. Bonfrer JM, Groeneveld EM, Korse CM, van Dalen A, Oomen LC, Ivanyi D. Monoclonal antibody M3 used in tissue polypeptide-specific antigen assay for the quantification of tissue polypeptide antigen recognizes keratin 18. *Tumour Biol.* 1994;15(4):210-22. PubMed PMID: 7524130.

Pictures:

Immunohistochemistry on Frozen Section of Human skin.

