

**DM127-05****Monoclonal Antibody to Cytokeratin 17 - Supernatant**

<b>Alternate names:</b>	CK17, Cytokeratin-17, K17, KRT17, Keratin 17, Keratin type I cytoskeletal 17, Keratin-17
<b>Quantity:</b>	0.5 ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">Q04695</a>
<b>NCBI:</b>	<a href="#">NP_000413.1</a>
<b>GeneID:</b>	<a href="#">3872</a>
<b>Host / Isotype:</b>	Mouse / IgG2b
<b>Clone:</b>	Ks17.E3
<b>Immunogen:</b>	Cytoskeletal fraction of rat colon epithelium.
<b>Format:</b>	<b>State:</b> Liquid Supernatant containing Sodium Azide as preservative.
<b>Applications:</b>	Immunohistochemistry on Paraffin Embedded Sections: diluted of 1/25-1/50 in an ABC method (30 minutes at room temperature). Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Positive Control: Skin. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to 46 kD Cytokeratin protein designated Cytokeratin 17. It reacts with basal cells in complex epithelia and reacts strongly with squamous cell carcinomas. Cellular Localization: Cytoplasmic <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.
<b>Product Citations:</b>	<b>Purchased from Acris:</b> 1. Hachiya A, Sriwiriyanont P, Fujimura T, Ohuchi A, Kitahara T, Takema Y, et al. Mechanistic effects of long-term ultraviolet B irradiation induce epidermal and dermal

changes in human skin xenografts. *Am J Pathol.* 2009 Feb;174(2):401-13. doi: 10.2353/ajpath.2009.070500. Epub 2009 Jan 15. PubMed PMID: 19147832.

**General Readings:**

1. Troyanovsky SM, Guelstein VI, Tchipysheva TA, Krutovskikh VA, Bannikov GA. Patterns of expression of keratin 17 in human epithelia: dependency on cell position. *J Cell Sci.* 1989 Jul;93 ( Pt 3):419-26. PubMed PMID: 2481679.
2. Smedts F, Ramaekers F, Troyanovsky S, Pruszczynski M, Robben H, Lane B, et al. Basal-cell keratins in cervical reserve cells and a comparison to their expression in cervical intraepithelial neoplasia. *Am J Pathol.* 1992 Mar;140(3):601-12. PubMed PMID: 1372156.
3. Smedts F, Ramaekers F, Troyanovsky S, Pruszczynski M, Link M, Lane B, et al. Keratin expression in cervical cancer. *Am J Pathol.* 1992 Aug;141(2):497-511. PubMed PMID: 1379783.
4. Wetzels RH, Schaafsma HE, Leigh IM, Lane EB, Troyanovsky SM, Wagenaar SS, et al. Laminin and type VII collagen distribution in different types of human lung carcinoma: correlation with expression of keratins 14, 16, 17 and 18. *Histopathology.* 1992 Apr;20(4):295-303. PubMed PMID: 1374358.

**Pictures:**

Formalin fixed paraffin embedded human squamous cell carcinoma stained with Cytokeratin 17 antibody DM127

