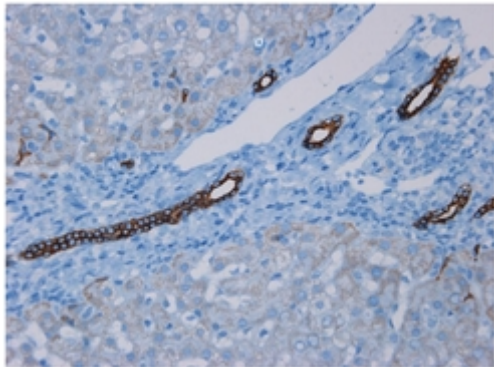


BM6003P**Monoclonal Antibody to Cytokeratin 7 - Purified**

Alternate names:	CK-7, CK7, K-7, K7, KRT-7, KRT7, Keratin type II cytoskeletal 7, Keratin-7, SCL, Sarcolectin
Quantity:	0.1 mg
Concentration:	1.0 mg/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:	P08729
NCBI:	NP_005547.3
GenElD:	3855
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	RCK105
Immunogen:	Cytokeratins from the Human bladder carcinoma cell line T24.
Format:	State: Liquid purified IgG fraction Buffer System: PBS with 0.09% Sodium Azide as preservative
Applications:	Immunoblotting. Flow Cytometry. Immunocytochemistry. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections. <u>Recommended Dilutions:</u> 1/100-1/200 for Flow Cytometry, and for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100-1/1000 for Immunoblotting . Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:	<i>RCK105</i> reacts exclusively with Cytokeratin 7 which is present in a subgroup of glandular epithelia and their tumors, as well as transitional epithelium and transitional carcinoma. Species: Canine, Feline, Goat, Hamster, Human, Mouse, Rat, Zebrafish. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles. Shelf life: One year from despatch.
General Readings:	1. Ramaekers F, Huysmans A, Schaart G, Moesker O, Vooijs P. Tissue distribution of keratin 7 as monitored by a monoclonal antibody. <i>Exp Cell Res.</i> 1987 May;170(1):235-49. PubMed PMID: 2436934. 2. 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. <i>Am J Pathol.</i> 1990 Mar;136(3):657-68. PubMed PMID: 1690513. 3. Schaafsma HE, Ramaekers FC, van Muijen GN, Lane EB, Leigh IM, Robben H, et al. Distribution of cytokeratin polypeptides in human transitional cell carcinomas, with special emphasis on changing expression patterns during tumor progression. <i>Am J Pathol.</i> 1990 Feb;136(2):329-43. PubMed PMID: 1689541. 4. Ramaekers F, van Niekerk C, Poels L, Schaafsma E, Huijsmans A, Robben H, et al. Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas. <i>Am J Pathol.</i> 1990 Mar;136(3):641-55. PubMed PMID: 1690512. 5. Bauwens LJ, De Groot JC, Ramaekers FC, Veldman JE, Huizing EH. Expression of intermediate filament proteins in the adult human vestibular labyrinth. <i>Ann Otol Rhinol Laryngol.</i> 1992 Jun;101(6):479-86. PubMed PMID: 1376975. 6. Smedts, F., Ramaekers, F., Troyanovsky, S., Pruszczynski, M., Link, M., Lane, B., Leigh, I., Schijf, C., and Vooijs, P. (1992). Keratin expression in cervical cancer, <i>Am J Pathol</i> 141, 497-511. 7. Ivanyi D, Minke JM, Hageman C, Groeneveld E, van Doornewaard G. Patterns of expression of feline cytokeratins in healthy epithelia and mammary carcinoma cells. <i>Am J Vet Res.</i> 1992 Mar;53(3):304-14. PubMed PMID: 1375818.
Pictures:	Immunohistochemistry on paraffin section of human liver. 

Immunohistochemistry on frozen sections of human liver (Left) and swine liver (Right), only bile duct epithelium positive; no reaction in hepatocytes.

