

BP5074**Polyclonal Antibody to Cytokeratin 7 - Serum**

Alternate names:	CK-7, CK7, K-7, K7, KRT-7, KRT7, Keratin type II cytoskeletal 7, Keratin-7, SCL, Sarcolectin
Quantity:	0.1 ml
Background:	Cytokeratin 7 is a 54kD intermediate filament protein found in a variety of glandularepithelia. Cytokeratin 7 has been found in columnar and glandular epithelium of the lung, cervix, breast, bile ducts and larger collecting ducts of the kidney. It is present in the transitional epithelium of bladder as well as ovarian and lungepithelia, and occasionally staining of blood vessel cell walls, particularly endothelial cells, may be observed. However, Cytokeratin 7 is not expressed by epithelial cells of the gastrointestinal tract, colon or prostate. Keratin 7 is often co expressed with keratin 19.
Uniprot ID:	P08729
NCBI:	NP_005547.3
GeneID:	3855
Host:	Guinea Pig
Immunogen:	Synthetic peptide (C-SAGPGLLKAYSIRT) of human keratin K7 (formerly also designated cytokeratin 7), coupled to KLH.
Format:	State: Stabilized antiserum Preservatives: 0.09% Sodium Azide Stabilizers: 0.5% BSA
Applications:	Western blotting: 1/3000 (ECL). Immunohistochemistry on frozen Sections: 1/200. Immunohistochemistry on paraffin-embedded: 1/100 (after microwave treatment). Cytological material. <i>Incubation time:</i> 1 h at RT; extended with paraffin sections. <i>Positive control:</i> Glandular epithelia (e.g. sweat glands, sebaceous glands); Merkel cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:	<p>Reacts with basic keratin K7 (Mr 54 000). Excellent marker for the discrimination of specific subtypes of adenocarcinoma: e.g. adenocarcinoma of pancreas, bile duct carcinoma and transitional carcinoma of bladder are stained, whereas hepatocellular and prostate carcinomas are negative. Detects specific subtypes of adenocarcinomas: Adenocarcinoma of pancreas, gallbladder, lung, cervix; cholangio carcinoma of liver; ductal and lobular carcinoma of breast; carcinomas of ovary; transitional cell carcinoma of bladder; mesothelioma; negative with most cases of hepatocellular carcinoma. In colorectal carcinoma early stages are reported to be negative but advanced stages of tumor development are positive for keratin K7 expression. Species: Human. Other species not tested.</p>
Storage:	<p>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.</p>
General Readings:	<p>Moll, R., Franke, W.W., Schiller, D.L., Geiger, B. and Krepler, R.: The catalog of human cytokeratins: Patterns of expression in normal epithelia, tumors and cultured cells. Cell 31, 11-24 (1982). Ramaekers, F., van Niekerk C., Poels, L., Schaafsma, E., Huijsmans, A., Robben, H., Schaart, G. and Vooijs, P.: Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas. Am. J. Pathol. 136, 641-655 (1990)</p>