

BM6004P**Monoclonal Antibody to Cytokeratin 8 - Purified**

Alternate names:	CK8, CYK8, Cytokeratin endo A, Cytokeratin-8, K8, KRT8, Keratin, Keratin-8, type II cytoskeletal 8
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	<p>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.</p>
Uniprot ID:	P05787
NCBI:	NP_002264.1
GenID:	3856
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	H1
Immunogen:	Cytoskeleton preparation containing Cytokeratin 8.
Format:	State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	Immunoblotting. Flow Cytometry. Immunocytochemistry. Immunofluorescence. Immunohistochemistry on Frozen and Paraffin-Embedded Sections. <i>Recommended Dilutions:</i> 1/25-1/200 for Flow Cytometry, and for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent and 1/100-1/1000 for Immunoblotting applications. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

- Specificity:** This Monoclonal antibody *H1* reacts with glandular epithelial cells (endocrine and exocrine) as well as mesothelial cells of the digestive, respiratory and urogenital tract and most adenocarcinomas derived from these cells.
- Species Reactivity:** **Tested:** Human, Zebrafish.
- 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. Guelstein VI, Tchypysheva TA, Ermilova VD, Litvinova LV, Troyanovsky SM, Bannikov GA. Monoclonal antibody mapping of keratins 8 and 17 and of vimentin in normal human mammary gland, benign tumors, dysplasias and breast cancer. *Int J Cancer*. 1988 Aug 15;42(2):147-53. PubMed PMID: 2456993.
 2. Troyanovsky SM, Guelstein VI, Tchypysheva 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.
 3. Ljubimov AV, Bartek J, Couchman JR, Kapuller LL, Veselov VV, Kovarik J, et al. Distribution of individual components of basement membrane in human colon polyps and adenocarcinomas as revealed by monoclonal antibodies. *Int J Cancer*. 1992 Feb 20;50(4):562-6. PubMed PMID: 1371500.
 4. Litvinov SV, van Driel W, van Rhijn CM, Bakker HA, van Krieken H, Fleuren GJ, et al. Expression of Ep-CAM in cervical squamous epithelia correlates with an increased proliferation and the disappearance of markers for terminal differentiation. *Am J Pathol*. 1996 Mar;148(3):865-75. PubMed PMID: 8774141.
- Pictures:** Immunofluorescence staining of a 7 days old Zebrafish embryo.

