

## Product datasheet for **BM5044**

### Cytokeratin 8 (KRT8) Mouse Monoclonal Antibody [Clone ID: Ks8.7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Ks8.7
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin-Embedded Sections</b> (After microwave treatment). <i>Recommended Dilutions:</i> When reconstituted with 1 ml distilled water, dilute further 1/10 for immunohistochemistry. <i>Incubation time:</i> 1 h at RT.
Reactivity:	Hamster, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Cytoskeletal proteins from cultured HeLa cells
Specificity:	Ks 8.7 represents an excellent marker to discriminate simple epithelia from those of different origin. <b>Polypeptide Reacting:</b> Mr 52500 polypeptide (keratin K8; formerly also designated cytokeratin 8) of human epithelia. <b>Tumors Specifically Detected:</b> All adeno-CA tested; undifferentiated CA; cervix CA; hepatocellular CA. <b>Tested Reactivities on cultured cell lines</b> MCF-7, RT 112, PLC.
Formulation:	Final solution contains 0.09% Sodium Azide and 0.5% BSA in PBS buffer, pH 7.4 State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore in 1 ml distilled water.
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	keratin 8
<b>Database Link:</b>	<a href="#">Entrez Gene 3856 Human P05787</a>
<b>Background:</b>	<p>Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in 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 cytokeratin polypeptides 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.</p> <p>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> <p>Cytokeratin 8 belongs to the type B (basic) subfamily of high molecular weight keratins and exists in combination with cytokeratin 18. Cytokeratin 8 is primarily found in the non squamous epithelia and is present in majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas. Hepatocellular carcinomas are defined by the use of antibodies that recognize only cytokeratin polypeptides 8 and 18.</p>
<b>Synonyms:</b>	KRT8, CYK8, Cytokeratin-8, CK8, Keratin-8, K8, Cytokeratin endo A