OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for BM5045S

Cytokeratin 8 (KRT8) Mouse Monoclonal Antibody [Clone ID: M20]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M20
Applications:	IF, IHC, WB
Recommended Dilution:	**Immunoblotting.** **Immunofluorescence.** **Immunohistochemistry on Frozen Sections:** 1/80, preferable in PBS. **Immunohistochemistry on Paraffin Sections:** 1/5-1/25 after TUF treatment.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Cytokeratin purified from the Human breast carcinoma cell line MC-7
Specificity:	This Monoclonal Antibody *Clone* M20 does stain almost all epithelial cells. In immunoblotting experiments the antibody recognizes only Keratin 8 (52,2 kD) and does not cross react with other cytokeratins. Frozen sections give excellent results in immunoperoxidase and immunofluorescence tests. **Cross reactivity:** Vimentin : not detectable Desmin : not detectable GFAP : not detectable Neurofilament : not detectable.
Formulation:	State: Supernatant State: Liquid Culture Supernatant Preservative: 10mM Sodium Azide, 1% FCS
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 8

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Database Link: Entrez Gene 3856 Human
P05787

Background: 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. 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. 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.

Synonyms: KRT8, CYK8, Cytokeratin-8, CK8, Keratin-8, K8, Cytokeratin endo A