

Product datasheet for **BM5042B**

Cytokeratin 5 (KRT5) (+ KRT8) Mouse Monoclonal Antibody [Clone ID: C22 (Ks 5+8.22)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	C22 (Ks 5+8.22)
Applications:	ELISA, FC, IF, IHC
Recommended Dilution:	ELISA. Flow Cytometry. Immunocytology. Immunohistochemistry on Frozen Tissues: 1/10-1/20. Incubation time: 1 h at RT. Immunohistochemistry on Paraffin-Embedded Tissues: 1/10-1/20. Microwave treatment is recommended prior to antibody application. Incubation time: Overnight at 2-8°C.
Reactivity:	Amphibian, Bovine, Human, Hydra, Mouse, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human keratin K8, purified from SDS PAGE gel.
Specificity:	Antibody clone C22 represents an excellent marker for distinguishing carcinomas from all non-epithelial tumors. The antibody specifically reacts with Keratins K5 and K8 present in nearly all epithelia. Polypeptide Reacting: Mr 52 500, Mr 58 000 keratins (type II keratins K5 and K8; formerly also designated cytokeratins 5 and 8) of human epithelial cells. Tested Reactivities on Cultured Cell Lines: MCF-7, RT 112, HT-29, Detroit 562, RPMI 2650, SSC-12, bovine BMGE+H, BMGE-H, MDBK. Epitope has been mapped to aa 353-367 on alpha helical rod domain (see Waseem <i>et al.</i> 2004).
Formulation:	Label: Biotin State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Purification:	Affinity Chromatography on Protein A
Conjugation:	Biotin



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Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 5
Database Link:	Entrez Gene 110308 Mouse Entrez Gene 3852 Human P13647
Background:	<p>Cytokeratin 5 is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13.</p> <p>Cytokeratin 8 is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis.</p>
Synonyms:	KRT5, Cytokeratin-5, Keratin-5, Keratin 5, CK5, K5