

Monoclonal Anti- Cytokeratin 17, CK17

Catalog# BMA1015

Lot # Check on the product label

Size 100 µg

Isotype IgG2a

Clone # C58

Host Mouse

Reactivity

Human, mouse, rat

Product Form Liquid

Purification Peptide affinity purified

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to the N-terminal of mouse CK17.

Recommend Application

Western Blot, WB (1:200-1:1,000)

Immunohistochemistry, IHC-P (1:50)

Immunocytochemistry, ICC (1:50)

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Storage Buffer

1*PBS (pH7.4), 0.2% BSA, 40% Glycerol and 0.05% Sodium Azide.

Storage Instruction

Store at 4°C after thawing (1 week).

Aliquot and store at -20°C for long term (at least one year).

Avoid repeated freeze and thaw cycles.

Background

Cytokeratin 17, also known as Keratin, type I cytoskeletal 17 (K17) is a protein

that in humans is encoded by the KRT17 gene. Keratin 17 (K17) is a differentiation-specific keratin expressed in the nail bed, hair follicle, sebaceous gland and other epidermal appendages.¹ The KRT17 gene is 5 kb long with 8 exons. Mutations in the gene encoding this protein lead to Jackson-Lawler type pachyonychia congenita and steatocystoma multiplex. Cytokeratin 17 synthesis seems to be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells".²

Reference

1. Covello, S. P., Smith, F. J. D., Sillevius Smitt, J. H., Paller, A. S., Munro, C. S., Jonkman, M. F., Uitto, J., McLean, W. H. I. Keratin 17 mutations cause either steatocystoma multiplex or pachyonychia congenita type 2. *Brit. J. Derm.* 139: 475-480, 1998.
2. Troyanovsky, S. M., Leube, R. E., Franke, W. W. Characterization of the human gene encoding cytokeratin 17 and its expression pattern. *Europ. J. Cell Biol.* 59: 127-137, 1992.

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