

## Monoclonal Anti- Cytokeratin 18, CK18

**Catalog#** BMA1016

**Lot #** Check on the product label

**Size** 100µg

**Isotype** IgG2a

**Clone #** C87-1

**Host** Mouse

**Reactivity**

Human, mouse, rat

**Product Form** Liquid

**Purification** Protein A purified

**Immunogen**

A synthetic peptide (conjugated with KLH) corresponding to the C-terminal of mouse CK18.

**Recommend Application**

Western Blot, WB (1:5,000)

Immunohistochemistry, IHC-P (1:100)

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 18, also known as keratin 18 (K18), is a type I cytokeratin. The K18

gene is 3791 bp in length and the K18 protein is coded for by seven exons.<sup>1</sup> Keratin 18 is often used together with keratin 8 and keratin 19 to differentiate cells of epithelial origin from hematopoietic cells in tests that enumerate circulating tumor cells in blood.<sup>2</sup> Keratin 8 and 18 (K8/18) are the major components of intermediate filament (IF) proteins of simple or single-layered epithelia.<sup>3</sup>

### Reference

1. Kulesh, D. A., Oshima, R. G. Complete structure of the gene for human keratin 18. *Genomics* 4: 339-347, 1989.

2. W. Jeffrey Allard, Jeri Matera, M. Craig Miller, et al. (October 2004). "Tumor Cells Circulate in the Peripheral Blood of All Major Carcinomas but not in Healthy Subjects or Patients With Nonmalignant Diseases". *Clin. Cancer Research* 10 (20): 6897 – 6904.

3. Inada, H; Izawa I, Nishizawa M, Fujita E, Kiyono T, Takahashi T, Momoi T, Inagaki M (Oct. 2001). "Keratin attenuates tumor necrosis factor-induced cytotoxicity through association with TRADD". *J. Cell Biol. (United States)* 155 (3): 415–26.

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