Cytokeratin 18, CK18 Protein (Active)

Catalog# BRP1006

Lot # Check on the product label

Size 100 μg

Description
Recombinant full length human Cytokeratin 18 protein with molecular weight 47.3 kDa.

Synonyms Keratin type I cytoskeletal 18, Cell proliferation-including gene 46 protein, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18, CK18, CYK18, PIG46

Source E. Coli

Purity >95% by SDS-PAGE

Formulation Liquid

Concentration 1 mg/ml

Application
ELISA
SDS-PAGE
Other applications have not been tested. The optimal dilutions should be determined by end user.

Storage buffer
Each vial contains Tris-HCL (pH7.4 ± 0.2) with 0.2% sodium azide.

Storage & Expiration
Ship at 4℃. Upon receipt, aliquot and store at -20℃ or -80℃ for long term.
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. 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. Keratin 8 and 18 (K8/18) are the major components of intermediate filament (IF) proteins of simple or single-layered epithelia.

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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