

KRT18 Human

Description: Cytokeratin 18 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain having a calculated molecular mass of 48,201 Dalton, showing a 45kDa band on SDS-page, pI-5.7. The KRT18 is purified by proprietary chromatographic techniques.

Synonyms: Keratin type I cytoskeletal 18, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18, CYK18, Cell proliferation-inducing gene 46 protein.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The protein (1mg/ml) was lyophilized from a sterile solution containing 30mM Tris-HCl pH-8, 9.5M urea, 2mM EDTA, 2mM DTT and 10mM methylammonium chloride.

Stability:

Lyophilized CK-18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CK-18 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized CK-18 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.

References:

1. Title: Role for the PP2A/B56 Phosphatase in Regulating 14-3-3 Release from Cdc25 to Control Mitosis. Publication: Copyright 2006 Elsevier Inc. All rights reserved. Cell, Volume 127, Issue 4, 759-773, 17 November 2006
doi:10.1016/j.cell.2006.10.035 Link: <http://www.cell.com/retrieve/pii/S0092867406014139cc=y2>
Title: Role for the PP2A/B56 Phosphatase in Regulating 14-3-3 Release from Cdc25 to Control Mitosis. Publication: Received 3 May 2006. Revised 23 August 2006. Accepted 9 October 2006. Available online 16 November 2006. Published: November 16, 2006.
Link: <http://www.sciencedirect.com/science/article/pii/S0092867406014139>

Catalog #:PRPS-356

For research use only.