

KRT18

Recombinant Human Cytokeratin 18

Catalog No.	CRC960A CRC960B CRC960C	Quantity: 5 µg 20 µg 1.0 mg
Alternate Names:	CYK18, K18, KRT18, cell proliferation-inducing protein 46, cytokeratin 18	
Description:	Cytokeratin 18 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 proteins. 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. Recombinant Human Cytokeratin 18 is a single, non-glycosylated polypeptide chain having a calculated molecular mass of 48.2 kD but showing a 45 kDa band on SDS-page.	
GeneID:	3875	
Source:	<i>E. coli</i>	
Molecular Weight:	45 kDa	
Formulation:	Lyophilized from a sterile solution containing 30 mM Tris-HCl, pH 8, + 9.5 M urea + 2 mM EDTA + 2 mM dithiothreitol (DTT) + 10 mM methylammonium chloride.	
Purity:	>95.0% by RP-HPLC and SDS-PAGE	
Reconstitution:	Centrifuge vial prior to opening. Reconstitute protein with sterile distilled water to a concentration not less than 100 µg/ml. Afterwards, it can be further diluted to other aqueous solutions.	
Reconstitution to Filaments:	Performed by mixing equimolar amounts of cytokeratins of type I and type II at concentrations of approximately 0.5 mg/ml, both dissolved in 9.5 M urea buffer (see Formulation above). Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4 M urea and then to low salt condition (50 mM NaCl + 2 mM DTT + 10 mM Tris-HCl, pH 7.4). For immunization purposes, the solution should be further dialyzed against PBS (e.g., Dulbecco's PBS).	
Storage & Stability:	Lyophilized product is stable at room temperature for up to 3 weeks. On receipt store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for one week at 4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein such as 0.1% HSA or BSA as a stabilizer. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.	

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