

## KRT8

### Recombinant Human Cytokeratin-8

<b>Catalog No.</b>	CRC006A CRC006B CRC006C	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Alternate Names:</b>	CARD2, CK-8, CK8, CYK8, K2C8, K8, KO		
<b>Description:</b>	<p>Cytokeratin-8 is a member of the type II keratin family of proteins. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. KRT8 dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in the KRT8 gene cause cryptogenic cirrhosis.</p> <p>Recombinant Human Cytokeratin 8 is a single, non-glycosylated polypeptide chain.</p>		
<b>GenelD:</b>	3856		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	53.5 kDa		
<b>Formulation:</b>	Lyophilized from a sterile filtered solution containing 30 mM Tris-HCl, pH 8.0 + 9.5 M urea + 2 mM DTT + 2 mM EDTA + 10 mM methylammonium chloride		
<b>Purity:</b>	>95% as determined by RP-HPLC and SDS-PAGE analyses		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
<b>Reconstitution to filaments:</b>	<p>Performed by mixing equimolar amounts of cytokeratins of type I and type II at concentrations of approx. 0.5 mg/ml, both dissolved in 9.5 M urea buffer (see 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 dithiothreitol, 10 mM Tris-HCl, pH 7.4). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e. g. Dulbecco's PBS).</p>		
<b>Storage &amp; Stability:</b>	<p>Lyophilized product is stable at room temperature for up to 3 weeks. Upon 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.</p> <p><b>Avoid repeated freeze-thaw cycles.</b></p>		

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