

## KRT19

### Recombinant Human Cytokeratin 19

<b>Catalog No.</b>	CRC177A CRC177B CRC177C	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Alternate Names:</b>	CK19, Keratin type I cytoskeletal 19, Keratin-19, K19, K1CS		
<b>Description:</b>	<p>Cytokeratin 19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, HRT19, the smallest known acidic cytokeratin, is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis.</p> <p>Recombinant Human Cytokeratin 19 is a single, non-glycosylated polypeptide chain.</p>		
<b>Concentration:</b>	1 mg/ml		
<b>Gene ID:</b>	3880		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	44.1 kDa		
<b>Formulation:</b>	Lyophilized white powder from a sterile filtered solution containing 30 mM Tris-HCl Buffer, pH-8.0, + 9.5 M Urea + 2 mM DTT + 2 mM EDTA + 10 mM Methylammonium Chloride		
<b>Purity:</b>	>95% by SDS-PAGE		
<b>Reconstitution:</b>	Reconstitute in sterile distilled water to a concentration not less than 100 µg/ml, which can then 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 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 (10 mM Tris-HCl, pH 7.4, + 50 mM NaCl + 2 mM dithiothreitol). 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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