KRT20
Recombinant Human Cytokeratin 20

Catalog No.	CRC179A	**Quantity:**	5 µg
	CRC179B		20 µg
	CRC179C		1.0 mg

Alternate Names: Keratin 20, KRT20, CK20, K20, KRT21

Description: KRT20 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. This cytokeratin is a major cellular protein of mature enterocytes and goblet cells and is specifically expressed in the gastric and intestinal mucosa.

Recombinant human KRT20 is a single, non-glycosylated polypeptide chain.

Gene ID: 54474

Source: *E. coli*

Molecular Weight: 48.6 kDa

Formulation: Lyophilized from a sterile filtered solution containing 30 mM Tris-HCl, pH 8.0 + 9.5 M urea + 2 mM DDT + 2 mM EDTA + 10 mM methylammonium chloride

Purity: >95.0% as determined by RP-HPLC and SDS-PAGE analyses

Reconstitution: **Centrifuge vial prior to opening**. First add sterile 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.

Reconstitution to Filaments: 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).

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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