Recombinant Human Cytokeratin 19 protein ab73639

Overview

Product name: Recombinant Human Cytokeratin 19 protein
Protein length: Full length protein

Description

Nature: Recombinant
Source: Escherichia coli
Amino Acid Sequence
Species: Human

Specifications

Our Abpromise guarantee covers the use of ab73639 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS-PAGE</td>
<td></td>
</tr>
<tr>
<td>Western blot</td>
<td></td>
</tr>
</tbody>
</table>

Purity

> 95 % SDS-PAGE.
ab73639 is purified by proprietary chromatographic techniques. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE.

Form

Lyophilised

Additional notes

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).

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
pH: 8.00
Constituents: 0.068% Methylamine hydrochloride, 0.0584% EDTA, 0.474% Tris HCl, 57% Urea
Reconstitution

Reconstitute in sterile 18MO-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

General Info

Function
Involved in the organization of myofibers. Together with KRT8, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.

Tissue specificity
Expressed in a defined zone of basal keratinocytes in the deep outer root sheath of hair follicles. Also observed in sweat gland and mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, ectocervical epithelium (at protein level). Expressed in epidermal basal cells, in nipple epidermis and a defined region of the hair follicle. Also seen in a subset of vascular wall cells in both the veins and artery of human umbilical cord, and in umbilical cord vascular smooth muscle. Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma in structures that contain dystrophin and spectrin.

Sequence similarities
Belongs to the intermediate filament family.

Developmental stage
Present in hair follicles at all stages of development.

Domain
This keratin differs from all other IF proteins in lacking the C-terminal tail domain.

Images

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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