

Product datasheet

Recombinant Human Cytokeratin 18 protein ab73638

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Overview

Product name	Recombinant Human Cytokeratin 18 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Species	Human
Molecular weight	48 kDa

Specifications

Our [Abpromise guarantee](#) covers the use of **ab73638** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot
Purity	> 95 % SDS-PAGE. ab73638 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 9.5M urea buffer (see above). Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4M urea and then to low salt condition (50mM NaCl, 2mM dithiothreitol, 10mM 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
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Constituents: 0.068% Methylamine hydrochloride, 0.0584% EDTA, 0.474% Tris HCl, 9.5% 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 uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.

Tissue specificity

Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

Involvement in disease

Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].

Sequence similarities

Belongs to the intermediate filament family.

Post-translational modifications

Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6.

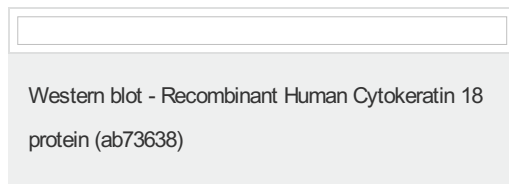
Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7.

O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues.

Cellular localization

Cytoplasm > perinuclear region.

Images



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