

Recombinant Human Cytokeratin 20 protein ab211958

Description	
Product name	Recombinant Human Cytokeratin 20 protein
Purity	> 90 % SDS-PAGE. Expressed in E. coli as inclusion bodies, refolded using temperature shift inclusion body refolding technology, chromatographically purified and sterile-filtered.
Expression system	Escherichia coli
Accession	<u>P35900</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MASMTGGQQMGRGHHHHHHGNLYFQGEFDFSRRSFHRS LSSSLQAPVVST VGMQRLGTTSPVYGGAGGRGIRISNSRHTVNYGSDLTGGG DLFVGNEKMA MQNLNDRLASYLEKVRTLQSNKLEVQIKQWYETNAPRA GRDYSAYYRQ IEELRSQIKDAQLQNARCVLQIDNAKLAAEDFRLKYETERGI RLTVEADL QGLNKVFDDLTLHKTDLEIQEELNKDLALLKKEHQEEVDG LHKHLGNTV NVEVDAAPGLNLGVIMNEMRQKYEVMAQKNLQEAKEQFE RQTAVLQQQVT VNTEELKGTEVQLTELRRTSQSLEIELQSHLSMKESLEHTL EETKARYSS QLANLQSLSSLEAQLMQIRSNMERQNNEYHILLDIKTRLE QEIATYRRL LEGEDVKTTEYQLSTLEERDIKTRKIKTVVQEVDGKVV SEVKEVEEN I
Predicted molecular weight	52 kDa including tags
Amino acids	2 to 424
Additional sequence information	Constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. (NP_061883).

Our **Abpromise guarantee** covers the use of **ab211958** 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
Form	Liquid
Additional notes	ab211958 may be used for <i>in vitro</i> Cytokeratin 20 mediated cellular cytoskeletal polymerization regulation study for cell stress induced apoptosis by intracellular delivery of this protein; it may be used for mapping PTP4A3 protein-protein interaction; as potential biomarker protein for clinical applications such as monitoring various cancer progression by measuring tissue sample Cytokeratin 20 protein expression level; as antigen for specific antibody production.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -80°C. pH: 8.00 Constituent: 0.32% Tris HCl Contains NaCl, KCl, EDTA, Sucrose and DTT.
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General Info

Function	Plays a significant role in maintaining keratin filament organization in intestinal epithelia. When phosphorylated, plays a role in the secretion of mucin in the small intestine.
Tissue specificity	Expressed predominantly in the intestinal epithelium. Expressed in luminal cells of colonic mucosa. Also expressed in the Merkel cells of keratinized oral mucosa; specifically at the tips of some rete ridges of the gingival mucosa, in the basal layer of the palatal mucosa and in the taste buds of lingual mucosa.
Sequence similarities	Belongs to the intermediate filament family.
Developmental stage	First detected at embryonic week 8 in individual 'converted' simple epithelial cells of the developing intestinal mucosa. In later fetal stages, synthesis extends over most goblet cells and a variable number of villus enterocytes. In the developing gastric and intestinal mucosa, expressed in all enterocytes and goblet cells as well as certain 'low-differentiated' columnar cells, whereas the neuroendocrine and Paneth cells are negative.
Post-translational modifications	Hyperphosphorylation at Ser-13 occurs during the early stages of apoptosis but becomes less prominent during the later stages. Phosphorylation at Ser-13 also increases in response to stress brought on by cell injury. Proteolytically cleaved by caspases during apoptosis. Cleavage occurs at Asp-228.
Cellular localization	Cytoplasm.

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