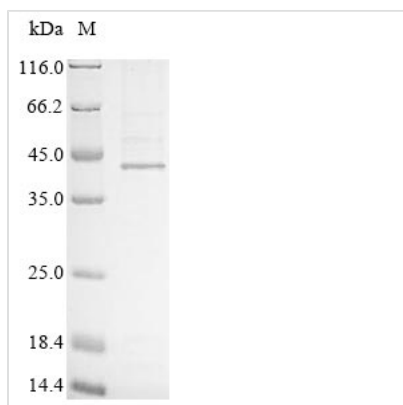


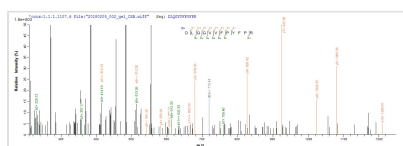


# Recombinant Human Hyaluronan and proteoglycan link protein 1 (HAPLN1)

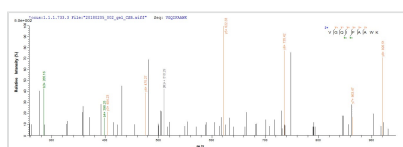
<b>Product Code</b>	CSB-MP010130HU
<b>Relevance</b>	Stabilizes the aggregates of proteoglycan monomers with hyaluronic acid in the extracellular cartilage matrix.
<b>Abbreviation</b>	Recombinant Human HAPLN1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P10915
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	DHLSDNYTLDDHRAIHQAENGPHLLVEAEQAKVFSHRGGNVTLPCKFYRDPT AFGSGIHKIRIKWTKLTSDYLKEVDVVFVSMGYHKKTYGGYQGRVFLKGGSDSD ASLVITDLTLEDYGRYKCEVIEGLEDDTVVVALDLQGVVFPYFPRLGRYNLNFH EAQQACLDQDAVIASFDQLYDAWRGGLDWCNAGWLSDGSVQYPITKPREPC GGQNTVPGVRNYGFWDKDKSRYDVFCFTSNFNGRFYLIHPTKLTIDEAVQA CLNDGAQIAKVGQIFAAWKILGYDRCDAGWLADGSVRYPISRPRRRCSPTAA VRFVGFDPDKKHKLYGVYCFRAYN
<b>Research Area</b>	Signal Transduction
<b>Source</b>	Mammalian cell
<b>Target Names</b>	HAPLN1
<b>Protein Names</b>	Cartilage-linking protein 1 Short name: Cartilage-link protein Proteoglycan link protein CRTL1
<b>Expression Region</b>	16-354aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged
<b>Mol. Weight</b>	41.0 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Mammalian Cell host and target protein, the LC-MS/MS Analysis result of CSB-MP010130HU could indicate that this peptide derived from Mammalian Cell-expressed Homo sapiens (Human) HAPLN1.



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## Description

CUSABIO synthesized the recombinant gene by integrating the N-terminal 10xHis tag sequence into the targeted gene encoding the 16-354aa of the human HAPLN1. The synthesized gene was subsequently cloned into an expression vector. After cloning, the expression vector was introduced into the Mammalian cell for expression. The product was purified to obtain the recombinant human HAPLN1 protein carrying N-terminal 10xHis tag. The SDS-PAGE assayed the purity of this recombinant HAPLN1 protein greater than 85%. This HAPLN1 protein migrated along the gel to a band of about 42 kDa molecular weight.

HAPLN1 is a gene providing instruction of making a protein named hyaluronan and proteoglycan link protein 1 (also known as proteoglycan link protein) in human and belongs to HAPLN family. The HAPLN gene family includes four members, including HAPLN1, HAPLN2, HAPLN3 and HAPLN4. Among of them, HAPLN1 is expressed in a restricted subset of adult tissues. A study has revealed that HAPLN1 loss in the aged tumor microenvironment drives a breakdown in the crosslinking of the ECM, which promotes melanoma migration while limiting intravasation of tumor-infiltrating lymphocytes.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



## **Shelf Life**

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Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.