

Collagen Type XII (COL12) Protein | COL12 protein

Eukaryotic Collagen Type XII (COL12)

CATALOG # AAA149268	HOST 293F cell	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Collagen Type XII (COL12); Eukaryotic Collagen Type XII (COL12); COL12-A1; COL12A1L; COL12A1; Collagen Alpha-1(XII)chain; COL12 protein

PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Homo sapiens (Human)
Purity/Purification	> 95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose .
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for COL12 protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Eukaryotic expression
Residues	Pro2802~Gly3063
Tags	N-terminal His Tag
Subcellular Location	Extracellular matrix
Traits	Freeze-dried powder
Predicted isoelectric point	10.4
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affect the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



SDS-PAGE



Identification
Figure. Gene Sequencing (Extract)



Sequence

ADDITIONAL INFORMATION

Product Categories/Family for COL12 protein	Metabolic pathway; Tumor immunity; Bone metabolism
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NCBI AND UNIPROT INFORMATION

NCBI GI #	93141047
NCBI GeneID	1303
NCBI Accession #	NP_004361.3
NCBI GenBank Nucleotide #	NM_004370.6
UniProt Accession #	Q99715
Molecular Weight	Predicted Molecular Mass: 27.1kDa Accurate Molecular Mass: 45&50&70kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	collagen alpha-1(XII) chain long isoform
NCBI Official Synonym Full Names	collagen type XII alpha 1 chain
NCBI Official Symbol	COL12A1
NCBI Official Synonym Symbols	UCMD2; BTHLM2; EDSMYP; COL12A1L; BA209D8.1; DJ234P15.1
NCBI Protein Information	collagen alpha-1(XII) chain
UniProt Protein Name	Collagen alpha-1(XII) chain
UniProt Gene Name	COL12A1
UniProt Synonym Gene Names	COL12A1L
UniProt Entry Name	COCA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/293f-cell-homo-sapiens-human-protein/collagen-type-xii-col12/149268>