

Recombinant Human COMP/Cartilage oligomeric matrix protein ab104358

[2 References](#) [2 图像](#)

描述

产品名称	重组人COMP/Cartilage oligomeric matrix蛋白
纯度	> 90 % SDS-PAGE. ab104358 is filtered (0.4 µm). Purity as determined by densitometric image analysis: >90%
表达系统	HEK 293 cells
Accession	<u>P49747</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<p>HVDYKDDDDK PAGQGQSPLGSDLGPQMLRELQETNAALQDV RE LLRQQ VREITFLKNTVMECDACGMQQSVRTGLPSVRPLLHCAPGFCF PGV ACI QTESGARCGPCPAGFTGNGSHCTDVNECNAHPCFPRVRCINT SPGFR C EACPPGYSGPTHQGVGLAFKANKQVCTDINECETGQHNCVP NSVCINT RGSFQCGPCQPGFVGDAQSGCQRRARFCPDGSPSECHEHAD CVLERDG S RSCVCAVGWANGILCGRDTDLDGFPDEKLRCPERQCRKDC VTVPN SGQ EDVDRDGIGDACDPDADGDGVPNEKDCPLVRNPDQRNTDED KWG DACDN CRSQKNDQKDTDQDGRGDACDDIDGDRIRNQADNCPRVPN S DQKSDG DGIGDACDNCQKSNPDQADVDFVGDACDSDQDQDGDGH QDSRDNCPT VPNSAQEDSDHDGQGDACDDDDNDGVPDSRDNCRLVPN PGQEDADRDGV GDVCQDDFDADKVVDKIDVCPENAEVTLTDFRAFQTV VLDPEGDAQIDPN WVVLNQGREIVQTMNSDPGLAVGYTAFNGVDFEGT FHVNTVTDYAGFI</p>

FGYQDSSSFYVVMWKQMEQTYWQANPFRAVAEP
GIQLKAVKSSTGPGEQL
RNALWHTGDTESQVRLWLDPRNVGWKDKKS
YRWFLQHRPQVGYIRVRFY
EGPELVADSNVVLDTTMRGGRLGVFCFSQ
ENIIWANLRYRCNDTIPEDYE THQLRQA

预测分子量 82 kDa including tags
氨基酸 21 to 757
标签 DDDDK tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab104358** in the following tested applications.

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

应用 SDS-PAGE
Western blot

形式 Lyophilized

补充说明 Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
This product was previously labelled as COMP

制备和贮存

稳定性和存储 Store at -20°C long term. Avoid freeze / thaw cycle. Please see notes section.
Constituents: 0.242% Tris, 0.29% Sodium chloride

复溶 Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely.

常规信息

功能 May play a role in the structural integrity of cartilage via its interaction with other extracellular matrix proteins such as the collagens and fibronectin. Can mediate the interaction of chondrocytes with the cartilage extracellular matrix through interaction with cell surface integrin receptors. Could play a role in the pathogenesis of osteoarthritis. Potent suppressor of apoptosis in both primary chondrocytes and transformed cells. Suppresses apoptosis by blocking the activation of caspase-3 and by inducing the IAP family of survival proteins (BIRC3, BIRC2, BIRC5 and XIAP). Essential for maintaining a vascular smooth muscle cells (VSMCs) contractile/differentiated phenotype under physiological and pathological stimuli. Maintains this phenotype of VSMCs by interacting with ITGA7.

组织特异性 Abundantly expressed in the chondrocyte extracellular matrix, and is also found in bone, tendon, ligament and synovium and blood vessels. Increased amounts are produced during late stages of osteoarthritis in the area adjacent to the main defect.

疾病相关

Defects in COMP are the cause of multiple epiphyseal dysplasia type 1 (EDM1) [MIM:132400]. EDM is a generalized skeletal dysplasia associated with significant morbidity. Joint pain, joint deformity, waddling gait, and short stature are the main clinical signs and symptoms. EDM is broadly categorized into the more severe Fairbank and the milder Ribbing types. Defects in COMP are the cause of pseudoachondroplasia (PSACH) [MIM:177170]. PSACH is a dominantly inherited chondrodysplasia characterized by short stature and early-onset osteoarthritis. PSACH is more severe than EDM1 and is recognized in early childhood.

序列相似性

Belongs to the thrombospondin family.
Contains 4 EGF-like domains.
Contains 1 TSP C-terminal (TSPC) domain.
Contains 8 TSP type-3 repeats.

发展阶段

Present during the earliest stages of limb maturation and is later found in regions where the joints develop.

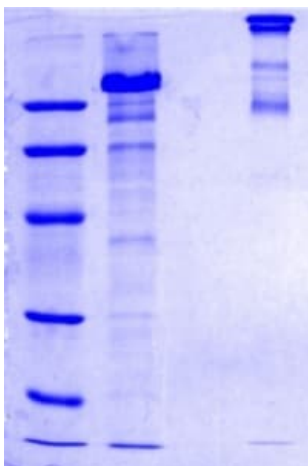
结构域

The cell attachment motif mediates the attachment to chondrocytes. It mediates the induction of both the IAP family of survival proteins and the antiapoptotic response.
The TSP C-terminal domain mediates interaction with FN1 and ACAN.

细胞定位

Secreted > extracellular space > extracellular matrix.

图片



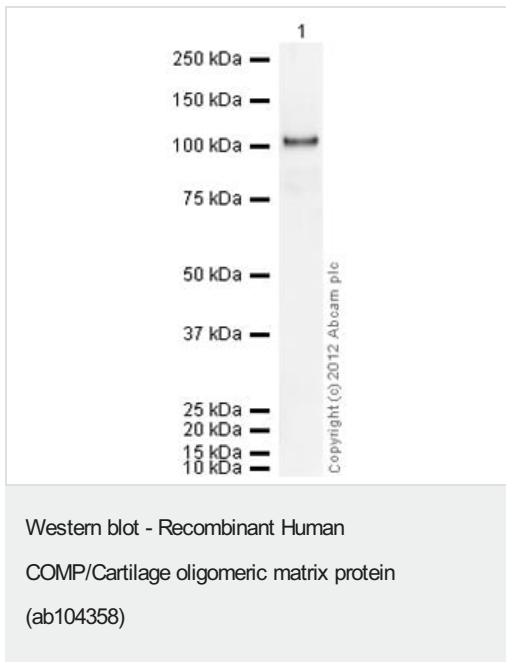
14% SDS-PAGE showing ab104358 at approximately 82.4kDa:

Lane 1: M.W. marker – 21, 31, 45, 66, 97 kDa.

Lane 2: reduced and boiled sample, 5µg/lane.

Lane 3: non-reduced and non-boiled sample, 5µg/lane.

SDS-PAGE - Recombinant Human COMP/Cartilage oligomeric matrix protein (ab104358)



Anti-COMP/Cartilage oligomeric matrix protein antibody (**ab42225**)
at 1/1000 dilution + Recombinant Human COMP/Cartilage
oligomeric matrix protein (ab104358) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at
1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 2 minutes

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