

Recombinant Human COMP/Cartilage oligomeric matrix protein ab104358

[2 References](#) [画像数 2](#)

製品の詳細

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| 製品名 | Recombinant Human COMP/Cartilage oligomeric matrix protein |
| 精製度 | > 90 % SDS-PAGE. ab104358 is filtered (0.4 µm). Purity as determined by densitometric image analysis: >90% |
| 発現系 | HEK 293 cells |
| アクセッション番号 | <u>P49747</u> |
| タンパク質長 | Full length protein |
| Animal free | No |
| 由来 | Recombinant |
| 生物種 | Human |
| 配列 | HVDYKDDDDK PAGQGQSPLGSDLGPQMLRELQETNAALQDV RE LLRQQ VREITFLKNTVMECDACGMQQSVRTGLPSVRPLLHCAPGFCF PGV ACI QTESGARCGPCPAGFTGNGSHCTDVNECNAHPCFPRVRCINT SPGFR C EACPPGYSGPTHQGVGLAFKANKQVCTDINECETGQHNCVP NSVCINT RGSFQCGPCQPGFVGDAQSGCQRRARFCPDGSPSECHEHAD CVLERDG S RSCVCAVGWANGILCGRDTDLDGFPDEKLRCPERQCRKDC VTVPN SGQ EDVDRDGIGDACPDADGDGVPNEKDCPLVRNPDRNTDED KWG DACDN CRSQKNDQKDTDQDGRGDACDDDDIDGDRIRNQADNCPRVPN S DQKSDG DGIGDACDNCQKSNPDQADVDFVGDACDSDQDQDGDGH QDSRDNCPT VPNSAQEDSDHDGQGDACDDDDNDGVPDSRDNCRLVPN PGQEDADRGGV GDVCQDDFDADKVVDKIDVCPENAEVTLTDFRAFQTV VLDPEGDAQIDPN WVVLNQGRIVQTMNSDPGLAVGYTAFNGVDFEGT FHVNTVTDYAGFI |

FGYQDSSSFYVVMWKQMEQTYWQANPFRAVAEP
GIQLKAVKSSTGPGEQL
RNALWHTGDTESQVRLWLDPRNVGWKDKKS
YRWFLQHRPQVGYIRVRFY
EGPELVADSNVLDTTMRGGRLGVFCFSQ
ENIIWANLRYRCNDTIPEDYE THQLRQA

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| 予測される分子量 | 82 kDa including tags |
| 領域 | 21 to 757 |
| タグ | DDDDK tag N-Terminus |

特性

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.

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| アプリケーション | SDS-PAGE Western blot |
| 製品の状態 | Lyophilized |
| 備考 | 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 |

前処理および保存

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| 保存方法および安定性 | Store at -20°C long term. Avoid freeze / thaw cycle. Please see notes section. Constituents: 0.242% Tris, 0.29% Sodium chloride |
| 再構成 | Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. |

関連情報

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| 機能 | 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. |
| 組織特異性 | 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. |

関連疾患

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.

配列類似性

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

発生段階

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

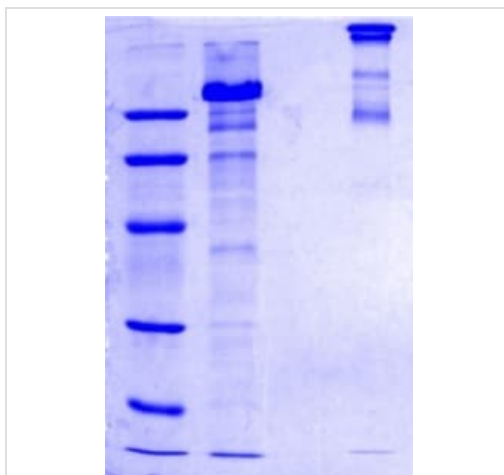
ドメイン

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.

細胞内局在

Secreted > extracellular space > extracellular matrix.

画像



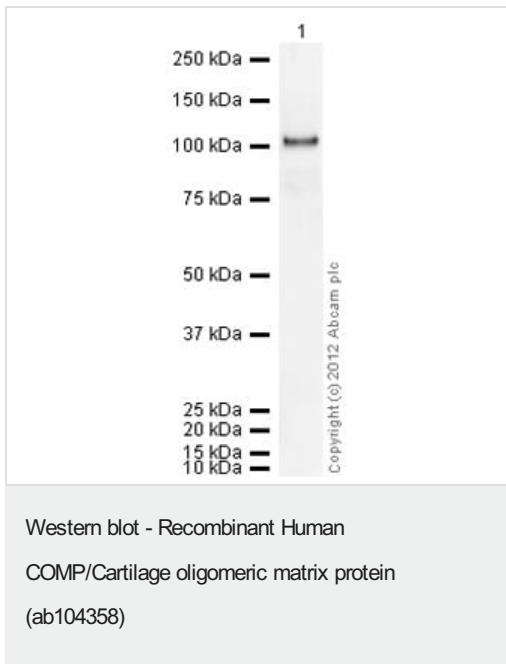
14% SDS-PAGE showing ab104358 at approximately 82.4kDa:

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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