abcam

Product datasheet

# Recombinant human Endostatin/COL18A1 protein ab56290

1 Image

## Description

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|---|---|
| **Product name** | Recombinant human Endostatin/COL18A1 protein |
| **Purity** | > 95 % SDS-PAGE.<br>Purity : Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg). |
| **Expression system** | Escherichia coli |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MHSHRDFQPV LHLVALNSPL SGGMRGIRGA DFQCFQQARA VGLAGTFRAF LSSRLQDLYS IVRRADRAAV PIVNLKDELL FPSWEALFSG SEGPLKPGAR IFSFDGKDVL RHPTWPQKSV WHGSDPNGRR LTESYCETWR TEAPSATGQA SSLLGGRLLG QSAASCHHAY IVLCIENSFM TASK |

## Specifications

Our **Abpromise guarantee** covers the use of **ab56290** 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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| **Applications** | SDS-PAGE<br>Functional Studies<br>Western blot |
| **Form** | Lyophilized |
| **Additional notes** | This product was previously labelled as Endostatin |

## Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.<br>This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| **Reconstitution** | For lot specific reconstitution information please contact our Scientific Support Team. |

## General Info

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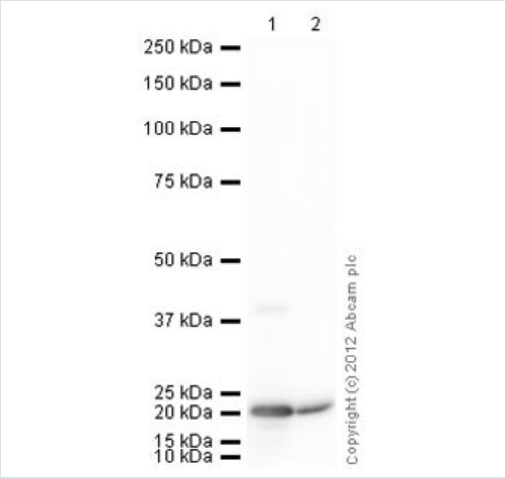
| **Function** | COLA18A probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.<br>Endostatin potently inhibits endothelial cell proliferation and angiogenesis. May inhibit angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling. |
| **Tissue specificity** | Present in multiple organs with highest levels in liver, lung and kidney. |
| **Involvement in disease** | Defects in COL18A1 are a cause of Knobloch syndrome (KNO) [MIM:267750]. KNO is an autosomal recessive disorder defined by the occurrence of high myopia, vitreoretinal degeneration with retinal detachment, macular abnormalities and occipital encephalocele. |
| **Sequence similarities** | Belongs to the multiplexin collagen family.<br>Contains 1 FZ (frizzled) domain.<br>Contains 1 TSP N-terminal (TSPN) domain. |
| **Post-translational modifications** | Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. |
| **Cellular localization** | Secreted > extracellular space > extracellular matrix. |

## Images




Western blot - Recombinant human Endostatin/COL18A1 protein (ab56290)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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