

Product datasheet

Recombinant Human Angiopoietin-like 4/ANGPTL4 protein ab203544

1 Image

Description

<b>Product name</b>	Recombinant Human Angiopoietin-like 4/ANGPTL4 protein
<b>Purity</b>	> 90 % Densitometry.
<b>Endotoxin level</b>	< 1.000 Eu/µg
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<a href="#">Q9BY76</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<pre> GPVQSKSPRF ASWDEMNVLA HGLLQLGQGL REHAERTRSQ LSALERRLSA CGSACQGTEG STDLP LAPES RVDPEVLHSL QTQLKAQNSR IQQLFHKVAQ QQRHLEKQHL RIQHLQSQFG LLDHKHL DHE VAKPARRKRL PEMAQPVDPA HNVSRLHRLP RDCQELFQVG ERQSGLFEIQ PQGSPFLVN CKMTSDGGWT VIQRRHDGSV DFNRPWEAYK AGFGDPHGEF WLGLEKVHSI TGDRNSRLAV QLRDWDGNAE LLQFSVHLGG EDTAYSLQLT APVAGQLGAT TVPPSGLSVP FSTWDQDHD LRRDKNCAKSL SGGWWFGTCS HSNLNGQYFR SIPQQRQK LK KGIFWKTWRG RYYPLQATTM LIQPMAAEAA SAAADYKDDD DK           </pre>
<b>Predicted molecular weight</b>	44 kDa including tags
<b>Amino acids</b>	26 to 406
<b>Tags</b>	DDDDK tag C-Terminus
<b>Additional sequence information</b>	This is the full length protein without the signal peptide.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab203544** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE ELISA Western blot Mass Spectrometry
<b>Form</b>	Lyophilised
<b>Additional notes</b>	Product is not sterile. Please filter the product by an appropriate sterile filter before using it in the cell culture.  This product was previously labelled as Angiopoietin-like 4

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## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 99% Phosphate Buffer, 0.43% Sodium chloride
<b>Reconstitution</b>	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. 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.

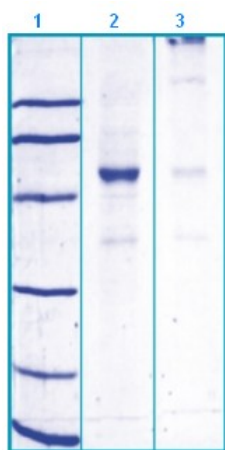
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## General Info

<b>Function</b>	Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorigenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function on endothelial cells through an endocrine action. It is directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity. In response to hypoxia, the unprocessed form of the protein accumulates in the subendothelial extracellular matrix (ECM). The matrix-associated and immobilized unprocessed form limits the formation of actin stress fibers and focal contacts in the adhering endothelial cells and inhibits their adhesion. It also decreases motility of endothelial cells and inhibits the sprouting and tube formation.
<b>Tissue specificity</b>	Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney.
<b>Sequence similarities</b>	Contains 1 fibrinogen C-terminal domain.
<b>Post-translational modifications</b>	N-glycosylated.
<b>Cellular localization</b>	Secreted. Secreted > extracellular space > extracellular matrix. The unprocessed form interacts with the extracellular matrix. This may constitute a dynamic reservoir, a regulatory mechanism of the bioavailability of ANGPTL4.

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## Images



SDS-PAGE - Recombinant Human Angiopoietin-like  
4/ANGPTL4 protein (ab203544)

12% SDS-PAGE analysis of ab203544.

**Lane 1:** M.W. marker – 14, 21, 31, 45, 66, 97 kDa

**Lane 2:** Reduced and heated sample, 10 µg / lane

**Lane 3:** Non-reduced and non-heated sample, 10 µg / lane

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

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