

Product datasheet

Recombinant Human Angiopoietin-like 4/ANGPTL4 protein ab203544

1 Image

Description

Product name	Recombinant Human Angiopoietin-like 4/ANGPTL4 protein	
Purity	> 90 % Densitometry.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	HEK 293 cells	
Accession	Q9BY76	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>GPVQSKSPRF ASWDEMNVLA HGLLQLGQGL REHAERTRSQ LSALERRLSA CGSACQGTEG STDLPLAPES RVDPEVLHSL QTQLKAQNSR IQQLFHKVAQ QQRHLEKQHL RIQHLQSQFG LLDHKHLDHE VAKPARRKRL PEMAQPVDPA HNVSRHLRLP RDCQELFQVG ERQSGLFEIQ PQGSPPFLVN CKMTSDGGWT VIQRRHDGSV DFNRPW EAYK AGFGDPHGEF WLGLEKVHSI TGDRNSRLAV QLRDWDGNAE LLQFSVHLGG EDTAYSLQLT APVAGQLGAT TVPPSGLSVP FSTWDQDHDL RRDKNCAKSL SGGWWFGTCS HSNLNGQYFR SIPQQRQKLGKIFWKTWRG RYYPLQATTM LIQPMAAEAAA SAAADYKDDD DK</p>	
Predicted molecular weight	44 kDa including tags	
Amino acids	26 to 406	
Tags	DDDDK tag C-Terminus	
Additional sequence information	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.

Applications	SDS-PAGE ELISA Western blot Mass Spectrometry
Form	Lyophilized
Additional notes	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

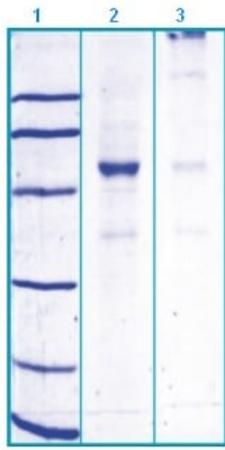
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 99% Phosphate Buffer, 0.43% Sodium chloride
Reconstitution	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.

General Info

Function	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.
Tissue specificity	Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney.
Sequence similarities	Contains 1 fibrinogen C-terminal domain.
Post-translational modifications	N-glycosylated.
Cellular localization	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.

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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