antibodies

Datasheet for ABIN3089122 Angiopoietin 2 Protein (ANGPT2) (AA 19-496) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Angiopoietin 2 (ANGPT2)
Protein Characteristics:	AA 19-496
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Angiopoietin 2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	YNNFRKSMDS IGKKQYQVQH GSCSYTFLLP EMDNCRSSSS PYVSNAVQRD APLEYDDSVQ
	RLQVLENIME NNTQWLMKLE NYIQDNMKKE MVEIQQNAVQ NQTAVMIEIG TNLLNQTAEQ
	TRKLTDVEAQ VLNQTTRLEL QLLEHSLSTN KLEKQILDQT SEINKLQDKN SFLEKKVLAM
	EDKHIIQLQS IKEEKDQLQV LVSKQNSIIE ELEKKIVTAT VNNSVLQKQQ HDLMETVNNL
	LTMMSTSNSA KDPTVAKEEQ ISFRDCAEVF KSGHTTNGIY TLTFPNSTEE IKAYCDMEAG
	GGGWTIIQRR EDGSVDFQRT WKEYKVGFGN PSGEYWLGNE FVSQLTNQQR YVLKIHLKDW
	EGNEAYSLYE HFYLSSEELN YRIHLKGLTG TAGKISSISQ PGNDFSTKDG DNDKCICKCS
	QMLTGGWWFD ACGPSNLNGM YYPQRQNTNK FNGIKWYYWK GSGYSLKATT MMIRPADF
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Human ANGPT2 Protein (raised in Insect Cells) purified by multi-step, protein-specific

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process to ensure crystallization grade.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE.
	Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
	Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	Angiopoietin 2 (ANGPT2)
Alternative Name:	ANGPT2 (ANGPT2 Products)

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Target Details

Background:	Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling.
	Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1. In the absence of
	angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may
	induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it
	may facilitate endothelial cell migration and proliferation, thus serving as a permissive
	angiogenic signal. {ECO:0000269 PubMed:15284220, ECO:0000269 PubMed:19116766,
	ECO:0000269 PubMed:19223473, ECO:0000269 PubMed:9204896}.
Molecular Weight:	55.9 kDa Including tag.
UniProt:	015123
Pathways:	RTK Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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