antibodies

Datasheet for ABIN3118849 SUN Domain Containing Ossification Factor (SUCO) (AA 30-1254) protein (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	SUN Domain Containing Ossification Factor (SUCO)
Protein Characteristics:	AA 30-1254
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	rho-1D4 tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	KESSSASASS YYSQDDNCAL ENEDVQFQKK DEREGPINAE SLGKSGSNLP ISPKEHKLKD
	DSIVDVQNTE SKKLSPPVVE TLPTVDLHEE SSNAVVDSET VENISSSSTS EITPISKLDE
	IEKSGTIPIA KPSETEQSET DCDVGEALDA SAPIEQPSFV SPPDSLVGQH IENVSSSHGK
	GKITKSEFES KVSASEQGGG DPKSALNASD NLKNESSDYT KPGDIDPTSV ASPKDPEDIP
	TFDEWKKKVM EVEKEKSQSM HASSNGGSHA TKKVQKNRNN YASVECGAKI LAANPEAKST
	SAILIENMDL YMLNPCSTKI WFVIELCEPI QVKQLDIANY ELFSSTPKDF LVSISDRYPT
	NKWIKLGTFH GRDERNVQSF PLDEQMYAKY VKMFIKYIKV ELLSHFGSEH FCPLSLIRVF
	GTSMVEEYEE IADSQYHSER QELFDEDYDY PLDYNTGEDK SSKNLLGSAT NAILNMVNIA
	ANILGAKTED LTEGNKSISE NATATAAPKM PESTPVSTPV PSPEYVTTEV HTHDMEPSTP
	DTPKESPIVQ LVQEEEEEAS PSTVTLLGSG EQEDESSPWF ESETQIFCSE LTTICCISSF
	SEYIYKWCSV RVALYRQRSR TALSKGKDYL VLAQPPLLLP AESVDVSVLQ PLSGELENTN
	IEREAETVVL GDLSSSMHQD DLVNHTVDAV ELEPSHSQTL SQSLLLDITP EINPLPKIEV

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	SESVEYEAGH IPSPVIPQES SVEIDNETEQ KSESFSSIEK PSITYETNKV NELMDNIIKE
	DVNSMQIFTK LSETIVPPIN TATVPDNEDG EAKMNIADTA KQTLISVVDS SSLPEVKEEE
	QSPEDALLRG LQRTATDFYA ELQNSTDLGY ANGNLVHGSN QKESVFMRLN NRIKALEVNM
	SLSGRYLEEL SQRYRKQMEE MQKAFNKTIV KLQNTSRIAE EQDQRQTEAI QLLQAQLTNM
	TQLVSNLSAT VAELKREVSD RQSYLVISLV LCVVLGLMLC MQRCRNTSQF DGDYISKLPK
	SNQYPSPKRC FSSYDDMNLK RRTSFPLMRS KSLQLTGKEV DPNDLYIVEP LKFSPEKKKK
	RCKYKIEKIE TIKPEEPLHP IANGDIKGRK PFTNQRDFSN MGEVYHSSYK GPPSEGSSET
	SSQSEESYFC GISACTSLCN GQSQKTKTEK RALKRRRSKV QDQGKLIKTL IQTKSGSLPS
	LHDIIKGNKE ITVGTFGVTA VSGHI
	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 SUCO Protein (raised in Insect Cells) purified by multi-step, protein-specific 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with

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	different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate
	fractions are analyzed by Western blot.
	3. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatograph. 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:	SUN Domain Containing Ossification Factor (SUCO)

Alternative Name:	SUCO (SUCO Products)
Background:	Required for bone modeling during late embryogenesis. Regulates type I collagen synthesis in osteoblasts during their postnatal maturation (By similarity). {ECO:0000250}.
Molecular Weight:	137.2 kDa Including tag.
UniProt:	Q9UBS9

Application Details

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 gurantee though.
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.
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Handling

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)