

Datasheet for ABIN3110765

LRP6 Protein (AA 20-1613) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	LRP6
Protein Characteristics:	AA 20-1613
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRP6 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	APLLLYANRR DLRLVDATNG KENATIVVGG LEDAAVDFV FSHGLIYWS D VSEEAIK RTE FNKTESVQNV VVSGLLSPDG LACDWLGEKL YWTDSETNRI EVSNLDGSLR KVLFWQELDQ PRAIALDPSS GFMYWTDWGE VPKIERAGMD GSSRFIIINS EIYWPNGLT L DYEEQKLYWA DAKLNFIHKS NLDGTNRQAV VKGSLPHPFA LTLFEDILYW TDWSTHSILA CNKYTGEGLR EIHSDFSPM DIHAFSQQRQ PNATNPCGID NGGCSHLCLM SPVKPFYQCA CPTGVKLLN GKTCKDGATE LLLLARRTDL RRISLDTPDF TDIVLQLEDI RHAIAIDYDP VEGYIYWTDD EVRAIRRSFI DGSGSQFVVT AQIAHPDGIA VDWVARNLYW TDTGTDRIEV TRLNGTMRKI LISEDLEPR AIVLDPMVGY MYWTDWGEIP KIERAALDGS DRVVLVNTSL GWPNGLALDY DEGKIYWGDA KTDKIEVMNT DGTGRRVLVE DKIPHIFGFT LLGDYVYWTD WQRRSIEVRH KRSAEREVII DQLPDLMLGK ATNVHRVIGS NPCAEENGGC SHLCLYRPQG LRCACPIGFE LISDMKTCIV PEAFLLFSRR ADIRRISET NNNNVAIPLT GVKEASALDF DVTDNRIYWT DISLKTISRA FMNGSALEHV VEFGLDYPEG MAVDWLGKNL YWADTG TNRI EVSKLDGQHR
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QVLVWKDLDS PRALALDPAE GFMYWTEWGG KPKIDRAAMD GSERTTLVPN VGRANGLTID
YAKRRLYWTD LDTNLISSN MLGLNREVIA DDLPHPFGLT QYQDYIYWTD WSRRSIERAN
KTSGQNRTII QGHLDYVMDI LVFHSSRQSG WNECASSNGH CSHLCLAVPV GGFVCGCPAH
YSLNADNRTC SAPTTFLLFS QKSAINRMVI DEQQSPDIIL PIHSLRNVRA IDYDPLDKQL
YWIDSRQNMI RKAQEDGSQG FTVVSVSVP S QNLEIQPYDL SIDIYSRYIY WTCEATNVIN
VTRLDGRSVG VVLKGEQDRP RAVVNVPEKG YMYFTNLQER SPKIERAALD GTEREVLFFS
GLSKPIALAL DSRLGKLFWA DSDLRRIESS DLSGANRIVL EDSNILQPVG LTVFENWLYW
IDKQQQMIEK IDMTGREGRT KVQARIAQLS DIHAVKELNL QEYRQHPCAQ DNGGC SHICL
VKGDGTTRCS CPMHLVLLQD ELSCGEPPTC SPQQFTCFTG EIDCIPVAWR CDGFTECEDH
SDELNCPVCS ESQFQCASGQ CIDGALRCNG DANCQDKSDE KNCVLCCLID QFRCANGQCI
GKHKKCDHNV DCSDKSDELD CYPTEEPAPQ ATNTVGSVIG VIVTIFVSGT VYFICQRMLC
PRMKGDGETM TNDYVHGA SVPLGYVPH SSSLGSLPGM SRGKSMISL SIMGGSSGPP
YDRAHVTGAS SSSSSSTKGT YFPAILNPPP SPATERSHYT MEFGYSSNSP STHRSYSYRP
YSYRHFAPPT TPCSTDVCDS DYAPSRMTS VATAKGYTSD LNYDSEPVPP PPTPRSQYLS
AEENYESCPP SPYTERSYSH HLYPPPPSPC TDSS

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 LRP6 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 receipt 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

Product Details

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:	<p>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with 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:	LRP6
Alternative Name:	LRP6 (LRP6 Products)
Background:	<p>Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes. Cell-surface coreceptor of Wnt/beta-catenin signaling, which plays a pivotal role in bone formation. The Wnt-induced Fzd/LRP6 coreceptor complex recruits DVL1 polymers to the plasma membrane which, in turn, recruits the AXIN1/GSK3B-complex to the cell surface promoting the formation of signalsomes and inhibiting AXIN1/GSK3-mediated phosphorylation and destruction of beta-catenin. Required for posterior patterning of the epiblast during gastrulation (By similarity). {ECO:0000250, ECO:0000269 PubMed:11357136, ECO:0000269 PubMed:11448771, ECO:0000269 PubMed:15778503, ECO:0000269 PubMed:16341017, ECO:0000269 PubMed:16513652, ECO:0000269 PubMed:17326769, ECO:0000269 PubMed:17400545, ECO:0000269 PubMed:19107203, ECO:0000269 PubMed:19293931, ECO:0000269 PubMed:19801552}.</p>

Target Details

Molecular Weight:	179.6 kDa Including tag.
UniProt:	O75581
Pathways:	WNT Signaling , Tube Formation

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)



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