antibodies

## Datasheet for ABIN3118263 LGR6 Protein (AA 25-967) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	LGR6
Protein Characteristics:	AA 25-967
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LGR6 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	APQPGPGPTA CPAPCHCQED GIMLSADCSE LGLSAVPGDL DPLTAYLDLS MNNLTELQPG
	LFHHLRFLEE LRLSGNHLSH IPGQAFSGLY SLKILMLQNN QLGGIPAEAL WELPSLQSLR
	LDANLISLVP ERSFEGLSSL RHLWLDDNAL TEIPVRALNN LPALQAMTLA LNRISHIPDY
	AFQNLTSLVV LHLHNNRIQH LGTHSFEGLH NLETLDLNYN KLQEFPVAIR TLGRLQELGF
	HNNNIKAIPE KAFMGNPLLQ TIHFYDNPIQ FVGRSAFQYL PKLHTLSLNG AMDIQEFPDL
	KGTTSLEILT LTRAGIRLLP SGMCQQLPRL RVLELSHNQI EELPSLHRCQ KLEEIGLQHN
	RIWEIGADTF SQLSSLQALD LSWNAIRSIH PEAFSTLHSL VKLDLTDNQL TTLPLAGLGG
	LMHLKLKGNL ALSQAFSKDS FPKLRILEVP YAYQCCPYGM CASFFKASGQ WEAEDLHLDD
	EESSKRPLGL LARQAENHYD QDLDELQLEM EDSKPHPSVQ CSPTPGPFKP CEYLFESWGI
	RLAVWAIVLL SVLCNGLVLL TVFAGGPVPL PPVKFVVGAI AGANTLTGIS CGLLASVDAL
	TFGQFSEYGA RWETGLGCRA TGFLAVLGSE ASVLLLTLAA VQCSVSVSCV RAYGKSPSLG
	SVRAGVLGCL ALAGLAAALP LASVGEYGAS PLCLPYAPPE GQPAALGFTV ALVMMNSFCF

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	LVVAGAYIKL YCDLPRGDFE AVWDCAMVRH VAWLIFADGL LYCPVAFLSF ASMLGLFPVT
	PEAVKSVLLV VLPLPACLNP LLYLLFNPHF RDDLRRLRPR AGDSGPLAYA AAGELEKSSC
	DSTQALVAFS DVDLILEASE AGRPPGLETY GFPSVTLISC QQPGAPRLEG SHCVEPEGNH
	FGNPQPSMDG ELLLRAEGST PAGGGLSGGG GFQPSGLAFA SHV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human LGR6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
	• 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 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

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## Product Details

	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

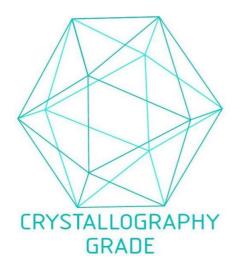
## Target Details

Target:	LGR6
Alternative Name:	LGR6 (LGR6 Products)
Background:	Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a
	marker of multipotent stem cells in the epidermis. Upon binding to R-spondins (RSP01, RSP02
	RSP03 or RSP04), associates with phosphorylated LRP6 and frizzled receptors that are
	activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to
	increase expression of target genes. In contrast to classical G-protein coupled receptors, does
	not activate heterotrimeric G-proteins to transduce the signal. May act as a tumor suppressor.
	{ECO:0000269 PubMed:21727895, ECO:0000269 PubMed:22615920}.
Molecular Weight:	103.0 kDa Including tag.
UniProt:	Q9HBX8
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 gurantee
	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	

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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)	

Images



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