antibodies

Datasheet for ABIN3114676 FZD5 Protein (AA 27-585) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	FZD5
Protein Characteristics:	AA 27-585
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FZD5 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	TGPPGPAATY HKQVSLSHV
	YFMCLVVGIT SGVWIWSGKT VESWRRFTSR CCCRPRRGHK SGGAMAAGDY PEASAALTGR
	MIRIGIFTLL YTVPASIVVA CYLYEQHYRE SWEAALTCAC PGHDTGQPRA KPEYWVLMLK
	AGICYVGNQN LNSLRGFVLG PLVLYLLVGT LFLLAGFVSL FRIRSVIKQG GTKTDKLEKL
	MASSIWWVIL SLTWFLAAGM KWGNEAIAGY AQYFHLAAWL IPSVKSITAL ALSSVDGDPV
	PERPIIFLSA CYLCVSLGFL VRLVVGHASV ACSREHNHIH YETTGPALCT IVFLLVYFFG
	YNKVRTGQVP NCAVPCYQPS FSADERTFAT FWIGLWSVLC FISTSTTVAT FLIDMERFRY
	CMDYNRSEAT TAPPRPFPAK PTLPGPPGAP ASGGECPAGG PFVCKCREPF VPILKESHPL
	CSMYTPICLP DYHKPLPPCR SVCERAKAGC SPLMRQYGFA WPERMSCDRL PVLGRDAEVL
Sequence:	ASKAPVCQEI TVPMCRGIGY NLTHMPNQFN HDTQDEAGLE VHQFWPLVEI QCSPDLRFFL

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human FZD5 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:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 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
Sterility: Endotoxin Level:	0.22 µm filtered Protein is endotoxin-free.

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Target Details

Target:	FZD5
Alternative Name:	FZD5 (FZD5 Products)
Background:	Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. Interacts specifically with Wnt5A to induce the beta-catenin pathway. {ECO:0000269 PubMed:10097073}.
Molecular Weight:	63.1 kDa Including tag.
UniProt:	Q13467
Pathways:	WNT 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 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:	
Restrictions.	For Research Use only
Handling	For Research Use only
	For Research Use only
Handling	
Handling Format:	Liquid

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images

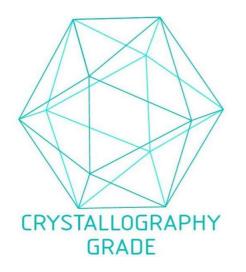


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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