antibodies

Datasheet for ABIN3135351 FZD6 Protein (AA 19-709) (rho-1D4 tag)



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duct page

Image



Quantity:	1 mg
Target:	FZD6
Protein Characteristics:	AA 19-709
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FZD6 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	HSLFTCEPIT VPRCMKMTYN MTFFPNLMGH YDQGIAAVEM GHFLHLANLE CSPNIEMFLC
	QAFIPTCTEQ IHVVLPCRKL CEKIVSDCKK LMDTFGIRWP EELECNRLPH CDDTVPVTSH
	PHTELSGPQK KSDQVPRDIG FWCPKHLRTS GDQGYRFLGI EQCAPPCPNM YFKSDELDFA
	KSFIGIVSIF CLCATLFTFL TFLIDVRRFR YPERPIIYYS VCYSIVSLMY FVGFLLGNST ACNKADEKLE
	LGDTVVLGSK NKACSVVFMF LYFFTMAGTV WWVILTITWF LAAGRKWSCE AIEQKAVWFH
	AVAWGAPGFL TVMLLAMNKV EGDNISGVCF VGLYDLDASR YFVLLPLCLC VFVGLSLLLA
	GIISLNHVRQ VIQHDGRNQE KLKKFMIRIG VFSGLYLVPL VTLLGCYVYE LVNRITWEMT
	WFSDHCHQYR IPCPYQANPK ARPELALFMI KYLMTLIVGI SAVFWVGSKK TCTEWAGFFK
	RNRKRDPISE SRRVLQESCE FFLKHNSKVK HKKKHGAPGP HRLKVISKSM GTSTGATTNH
	GTSAMAIADH DYLGQETSTE VHTSPEASVK EGRADRANTP SAKDRDCGES AGPSSKLSGN
	RNGRESRAGG LKERSNGSEG APSEGRVSPK SSVPETGLID CSTSQAASSP EPTSLKGSTS
	LPVHSASRAR KEQGAGSHSD A

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	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. Mouse Fzd6 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. 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
	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

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Product Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	FZD6
Alternative Name:	Fzd6 (FZD6 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. Activation by Wnt5A stimulates PKC
	activity via a G-protein-dependent mechanism. Involved in transduction and intercellular
	transmission of polarity information during tissue morphogenesis and/or in differentiated
	tissues (By similarity). Together with FZD3, is involved in the neural tube closure and plays a
	role in the regulation of the establishment of planar cell polarity (PCP), particularly in the
	orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and
	vestibular sensory cells located in the inner ear. {ECO:0000250,
	ECO:0000269 PubMed:16495441}.
Molecular Weight:	78.2 kDa Including tag.
UniProt:	Q61089
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. 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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Application Details

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)

Images



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