antibodies

## Datasheet for ABIN3134802 FGFR4 Protein (AA 17-799) (rho-1D4 tag)



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Quantity:	1 mg
Target:	FGFR4
Protein Characteristics:	AA 17-799
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGFR4 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

Sequence:	LSLEASEEME QEPCLAPILE QQEQVLTVAL GQPVRLCCGR TERGRHWYKE GSRLASAGRV
	RGWRGRLEIA SFLPEDAGRY LCLARGSMTV VHNLTLLMDD SLTSISNDED PKTLSSSSSG
	HVYPQQAPYW THPQRMEKKL HAVPAGNTVK FRCPAAGNPM PTIHWLKDGQ AFHGENRIGG
	IRLRHQHWSL VMESVVPSDR GTYTCLVENS LGSIRYSYLL DVLERSPHRP ILQAGLPANT
	TAVVGSDVEL LCKVYSDAQP HIQWLKHVVI NGSSFGADGF PYVQVLKTTD INSSEVEVLY
	LRNVSAEDAG EYTCLAGNSI GLSYQSAWLT VLPEEDLTWT TATPEARYTD IILYVSGSLV
	LLVLLLLAGV YHRQVIRGHY SRQPVTIQKL SRFPLARQFS LESRSSGKSS LSLVRGVRLS
	SSGPPLLTGL VNLDLPLDPL WEFPRDRLVL GKPLGEGCFG QVVRAEAFGM DPSRPDQTST
	VAVKMLKDNA SDKDLADLVS EMEVMKLIGR HKNIINLLGV CTQEGPLYVI VECAAKGNLR
	EFLRARRPPG PDLSPDGPRS SEGPLSFPAL VSCAYQVARG MQYLESRKCI HRDLAARNVL
	VTEDDVMKIA DFGLARGVHH IDYYKKTSNG RLPVKWMAPE ALFDRVYTHQ SDVWSFEILL
	WEIFTLGGSP YPGIPVEELF SLLREGHRME RPPNCPSELY GLMRECWHAA PSQRPTFKQL

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	VEALDKVLLA VSEEYLDLRL TFGPFSPSNG DASSTCSSSD SVFSHDPLPL EPSPFPFSDS QTT
	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>Mouse Fgfr4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:
	<ol> <li>Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li> <li>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.</li> </ol>
	<ol> <li>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.</li> </ol>
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:	FGFR4
Alternative Name:	Fgfr4 (FGFR4 Products)
Background:	Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and
	plays a role in the regulation of cell proliferation, differentiation and migration, and in regulation
	of lipid metabolism, bile acid biosynthesis, glucose uptake, vitamin D metabolism and
	phosphate homeostasis. Required for normal down-regulation of the expression of CYP7A1, the
	rate-limiting enzyme in bile acid synthesis, in response to FGF19. Phosphorylates PLCG1 and
	FRS2. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1
	leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-
	trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1,
	and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling
	pathway, as well as of the AKT1 signaling pathway. Promotes SRC-dependent phosphorylation
	of the matrix protease MMP14 and its lysosomal degradation. FGFR4 signaling is down-
	regulated by receptor internalization and degradation, MMP14 promotes internalization and
	degradation of FGFR4. Plays a role in postnatal lung development. May be involved in the
	development of skeletal muscle cell lineages. {ECO:0000269 PubMed:10809780,
	ECO:0000269 PubMed:17664243, ECO:0000269 PubMed:19237543,
	ECO:0000269 PubMed:21561999, ECO:0000269 PubMed:9716527}.
Molecular Weight:	88.1 kDa Including tag.
UniProt:	Q03142
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway, Carbohydrate Homeostasis, Growth Factor Binding
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

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Application Details	
	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
Format: Buffer:	Liquid 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Buffer: Handling Advice:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.