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Datasheet for ABIN3110866 GABBR2 Protein (AA 42-941) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	GABBR2
Protein Characteristics:	AA 42-941
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GABBR2 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	WARGAPRPPP SSPPLSIMGL MPLTKEVAKG SIGRGVLPAV ELAIEQIRNE SLLRPYFLDL
	RLYDTECDNA KGLKAFYDAI KYGPNHLMVF GGVCPSVTSI IAESLQGWNL VQLSFAATTP
	VLADKKKYPY FFRTVPSDNA VNPAILKLLK HYQWKRVGTL TQDVQRFSEV RNDLTGVLYG
	EDIEISDTES FSNDPCTSVK KLKGNDVRII LGQFDQNMAA KVFCCAYEEN MYGSKYQWII
	PGWYEPSWWE QVHTEANSSR CLRKNLLAAM EGYIGVDFEP LSSKQIKTIS GKTPQQYERE
	YNNKRSGVGP SKFHGYAYDG IWVIAKTLQR AMETLHASSR HQRIQDFNYT DHTLGRIILN
	AMNETNFFGV TGQVVFRNGE RMGTIKFTQF QDSREVKVGE YNAVADTLEI INDTIRFQGS
	EPPKDKTIIL EQLRKISLPL YSILSALTIL GMIMASAFLF FNIKNRNQKL IKMSSPYMNN
	LIILGGMLSY ASIFLFGLDG SFVSEKTFET LCTVRTWILT VGYTTAFGAM FAKTWRVHAI
	FKNVKMKKKI IKDQKLLVIV GGMLLIDLCI LICWQAVDPL RRTVEKYSME PDPAGRDISI
	RPLLEHCENT HMTIWLGIVY AYKGLLMLFG CFLAWETRNV SIPALNDSKY IGMSVYNVGI
	MCIIGAAVSF LTRDQPNVQF CIVALVIIFC STITLCLVFV PKLITLRTNP DAATQNRRFQ

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	FTQNQKKEDS KTSTSVTSVN QASTSRLEGL QSENHRLRMK ITELDKDLEE VTMQLQDTPE
	KTTYIKQNHY QELNDILNLG NFTESTDGGK AILKNHLDQN PQLQWNTTEP SRTCKDPIED
	INSPEHIQRR LSLQLPILHH AYLPSIGGVD ASCVSPCVSP TASPRHRHVP PSFRVMVSGL
	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 GABBR2 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 Western blot.

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Product Details	
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:	GABBR2
Alternative Name:	GABBR2 (GABBR2 Products)
Background:	Component of a heterodimeric G-protein coupled receptor for GABA, formed by GABBR1 and GABBR2. Within the heterodimeric GABA receptor, only GABBR1 seems to bind agonists, while GABBR2 mediates coupling to G proteins. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase, stimulates phospholipase A2, activates potassium channels, inactivates voltage-dependent calcium-channels and modulates inositol phospholipid hydrolysis. Plays a critical role in the fine-tuning of inhibitory synaptic transmission. Pre-synaptic GABA receptor inhibits neurotransmitter release by down-regulating high-voltage activated calcium channels, whereas postsynaptic GABA receptor decreases neuronal excitability by activating a prominent inwardly rectifying potassium (Kir) conductance that underlies the late inhibitory postsynaptic potentials. Not only implicated in synaptic inhibition but also in hippocampal long-term potentiation, slow wave sleep, muscle relaxation and antinociception. {EC0:0000269 PubMed:10328880, EC0:0000269 PubMed:24305054, EC0:0000269 PubMed:9872316}.
Molecular Weight:	102.9 kDa Including tag.
UniProt:	075899
Pathways:	cAMP Metabolic Process
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

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Application Details	
	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)

Images

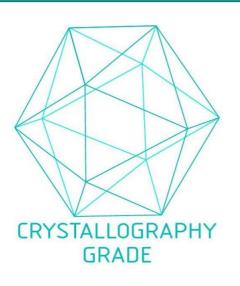


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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