antibodies

## Datasheet for ABIN3135479 Kv1.6/KCNA6 Protein (AA 1-529) (rho-1D4 tag)



1 Image



Quantity:	1 mg
Target:	Kv1.6/KCNA6 (KCNA6)
Protein Characteristics:	AA 1-529
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kv1.6/KCNA6 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MRSEKSLTLA APGEVRGPEG EQQDAGEFQE AEGGGGCCSS ERLVINISGL RFETQLRTLS
	LFPDTLLGDP GRRVRFFDPL RNEYFFDRNR PSFDAILYYY QSGGRLRRPV NVPLDIFMEE
	IRFYQLGEEA LAAFREDEGC LPEGGEDEKP LPSQPFQRQV WLLFEYPESS GPARGIAIVS
	VLVILISIVI FCLETLPQFR ADGRGGSNEG SGTRLSPASR SHEEEDEDED SYAFPGSIPS
	GGLGTGGTSS LSTLGGSFFT DPFFLVETLC IVWFTFELLV RFSACPSKAA FFRNIMNIID
	LVAIFPYFIT LGTELVQRHE QQSVSGGSGQ NGQQAMSLAI LRVIRLVRVF RIFKLSRHSK
	GLQILGKTLQ ASMRELGLLI FFLFIGVILF SSAVYFAEAD DVDSLFPSIP DAFWWAVVTM
	TTVGYGDMYP MTVGGKIVGS LCAIAGVLTI ALPVPVIVSN FNYFYHRETE QEEQGQYTHV
	TCGQPTPDLK ATDNGLGKPD FAEASRERRP SYLPTPHRAY AEKRMLTEV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details		
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Kcna6 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:	<ul> <li>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</li> <li>1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li> <li>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.</li> <li>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.</li> </ul>	
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	

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Target:	Kv1.6/KCNA6 (KCNA6)		
Alternative Name:	Kcna6 (KCNA6 Products)		
Background:	Voltage-gated potassium channel that mediates transmembrane potassium transport in		
	excitable membranes. Forms tetrameric potassium-selective channels through which		
	potassium ions pass in accordance with their electrochemical gradient (By similarity). The		
	channel alternates between opened and closed conformations in response to the voltage		
	difference across the membrane (By similarity). Can form functional homotetrameric channels		
	and heterotetrameric channels that contain variable proportions of KCNA1, KCNA2, KCNA4,		
	KCNA6, and possibly other family members as well, channel properties depend on the type of		
	alpha subunits that are part of the channel (By similarity). Channel properties are modulated by		
	cytoplasmic beta subunits that regulate the subcellular location of the alpha subunits and		
	promote rapid inactivation (By similarity). Homotetrameric channels display rapid activation		
	and slow inactivation (By similarity). {ECO:0000250 UniProtKB:P17658,		
	ECO:0000250 UniProtKB:P17659}.		
Molecular Weight:	59.8 kDa Including tag.		
JniProt:	Q61923		
	Q01925		
Application Details	Q01925		
Application Details	In addition to the applications listed above we expect the protein to work for functional studies		
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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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