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Datasheet for ABIN3136121 CLCA2 Protein (AA 33-942) (rho-1D4 tag)



Image

Overview

Quantity:	1 mg
Target:	CLCA2
Protein Characteristics:	AA 33-942
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLCA2 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	LKLKENGYDG LLVAINPRVP EDLKLITNIK EMITEASFYL FNATKRRVFF RNVQILVPAT
	WTDHNYSRVR QESYDKANVI VAEQSEEHGD DPYTLQHRGC GQEGRYIHFT PSFLLNDELA
	AGYGARGRVF VHEWAHLRWG VFDEYNNDKP FYVNGRNEIQ VTRCSSDITG VFVCEKGLCP
	HEDCIISKIF REGCTFLYNS TQNATGSIMF MPSLPSVVEF CNESTHNQEA PNLQNQVCSL
	RSTWDVITAS SDLNHSLPVH GVGLPAPPTF SLLQAGDRVV CLVIDVSRKM AEGDRLLRLQ
	QAAELYLMQV VEAHTFVGIV TFDSKGEIRA SLQQIYSDDD RKLLVSYLPT AVSTDAETNI
	CAGVKKGFEV VEERNGRADG SVLILVTSGA DEHIANCLLT SMNSGSTIHS MALGSSAARK
	VGELSRLTGG LKFFIPDKFT SNGMTEAFVR ISSGTGDIFQ QSLQVESVCE TVQPQHQLAD
	TMTVDSAVGN DTLFLVTWQT GGPPEIALLD PSGRKYNTGD FIINLAFRTA SLKIPGTAKH
	GHWTYTLNNT HHSPQALKVT VASRASSLAM SPATLEAFVE RDSTYFPQPV IIYANVRKGL
	HPILNATVVA TVEPEAGDPV VLQLLDGGAG ADVIRNDGIY SRYFSSFAVS GSYSLTVHVR
	HSPSTSTLAL PVPGNHAMYV PGYITNDNIQ MNAPKNLGHR PVKERWGFSR VSSGGSFSVL

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	GVPDGPHPDM FPPCKITDLE AMKVEDDVVL SWTAPGEDFD QGQTTSYEIR MSRSLWNIRD		
	DFDNAILVNS SELVPQHAGT RETFTFSPKL VTHELDHELA EDAQEPYIVY VALRAMDRSS		
	LRSAVSNIAL VSMSLPPNSS PVVSRDDLIL KGVLTTVGLI AILCLIMVVA HCIFNRKKRP		
	SRKENETKFL		
	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 Clca2 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). 		
	• State-or-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 		

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Product Details

	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
Target Details	
Target:	CLCA2
Alternative Name:	Clca2 (CLCA2 Products)
Background:	Plays a role in modulating chloride current across the plasma membrane in a calcium- dependent manner, and cell adhesion. Involved in basal cell adhesion and/or stratification of squamous epithelia. May act as a tumor suppressor in breast and colorectal cancer. Plays a key role for cell adhesion in the beginning stages of lung metastasis via the binding to ITGB4. {ECO:0000269 PubMed:15284223, ECO:0000269 PubMed:15292178}.
Molecular Weight:	101.4 kDa Including tag.
UniProt:	Q8BG22
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.
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.

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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