antibodies

Datasheet for ABIN3137110 CLCA1 Protein (AA 22-913) (rho-1D4 tag,His tag)





Overview

Quantity:	1 mg
Target:	CLCA1
Protein Characteristics:	AA 22-913
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLCA1 protein is labelled with rho-1D4 tag,His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MHHHHHHESL IQLNNNGYEG IVIAIDHDVP EDEALIQHIK DMVTQASPYL FEATGKRFYF KNVA ILI
	PESWKAKPEY TRPKLETFKN ADVLVSTTSP LGNDEPYTEH IGACGEKGIR IHLTPDFLAG
	KKLTQYGPQD RTFVHEWAHF RWGVFNEYNN DEKFYLSKGK PQAVRCSAAI TGKNQVRRCQ
	GGSCITNGKC VIDRVTGLYK DNCVFVPDPH QNEKASIMFN QNINSVVEFC TEKNHNQEAP
	NDQNQRCNLR STWEVIQESE DFKQTTPMTA QPPAPTFSLL QIGQRIVCLV LDKSGSMLND
	DRLNRMNQAS RLFLLQTVEQ GSWVGMVTFD SAAYVQSELK QLNSGADRDL LIKHLPTVSA
	GGTSICSGLR TAFTVIKKKY PTDGSEIVLL TDGEDNTISS CFDLVKQSGA IIHTVALGPA
	AAKELEQLSK MTGGLQTYSS DQVQNNGLVD AFAALSSGNA AIAQHSIQLE SRGVNLQNNQ
	WMNGSVIVDS SVGKDTLFLI TWTTHPPTIF IWDPSGVEQN GFILDTTTKV AYLQVPGTAK
	VGFWKYSIQA SSQTLTLTVT SRAASATLPP ITVTPVVNKN TGKFPSPVTV YASIRQGASP
	ILRASVTALI ESVNGKTVTL ELLDNGAGAD ATKNDGVYSR FFTAFDANGR YSVKIWALGG
	VTSDRQRAAP PKNRAMYIDG WIEDGEVRMN PPRPETSYVQ DKQLCFSRTS SGGSFVATNV

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	PAAAPIPDLF PPCQITDLKA SIQGQNLVNL TWTAPGDDYD HGRASNYIIR MSTSIVDLRD
	HFNTSLQVNT TGLIPKEASS EEIFEFELGG NTFGNGTDIF IAIQAVDKSN LKSEISNIAR
	VSVFIPAQEP PIPEDSTPPC PDISINSTIP GIHVLKIMWK WLGEMQVTLG LHGSSGTETS QVAP A
	Sequence includes N-terminal His-tag and C-terminal Rho1D4 tag
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human PLP1 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).
	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:	The protein is purified from the cleared cell lysate using Rho1D4-tag capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a second purification step through size exclusion chromatography. 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
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	CLCA1
Alternative Name:	Clca1 (CLCA1 Products)
Background:	May be involved in mediating calcium-activated chloride conductance. May play critical roles in
	goblet cell metaplasia, mucus hypersecretion, cystic fibrosis and AHR. May be involved in the
	regulation of mucus production and/or secretion by goblet cells. Involved in the regulation of
	tissue inflammation in the innate immune response. May play a role as a tumor suppressor.
	Induces MUC5AC. {ECO:0000269 PubMed:11296262, ECO:0000269 PubMed:11694454,
	ECO:0000269 PubMed:16645179}.
Molecular Weight:	99.9 kDa including both tags

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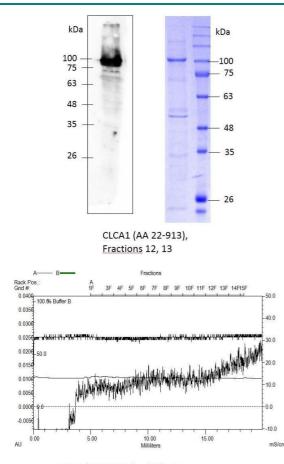
Target Details	
UniProt:	Q9D7Z6
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not 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:	In solution (20 mM Hepes, pH 7.4, 100 mM NaCl, ortho-Phenanthroline, 5 mM EDTA
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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CLCA1 (AA 22-913), gel filtration Superdex 200; fraction 12 – 13 collected → Ortho Phenanthroline (aromate) interferes with 280 nm signal Image 2.

Image 3.