antibodies

Datasheet for ABIN3129382 SLC22A17 Protein (AA 1-401) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	SLC22A17
Protein Characteristics:	AA 1-401
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A17 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MPSARFGRRG IVLLTLGLVG PCGVGGAAAG SSTGIMALRF LLGFLLAGVD LGVYLMRLEL CDPTQRLRVA LAGELVGVGG HFLFLGLALV SKDWRFLQRM ITAPCILFLF YGWPGLFLES
	ARWLIVKRQI EEAQSVLRIL AERNRPHGQM LGEEAQEALQ ELENTCPLPA TSTFSFASLL
	NYRNIWKNLL ILGFTNFIAH AIRHCYQPVG GGGSPSDFYL CSLLASGTAA LACVFLGVTV
	DRFGRRGILL LSMTLTGIAS LVLLGLWDYL NDAAITTFSV LGLFSSQASA ILSTLLASEV
	IPTTVRGRGL GLIMALGALG GLSCPAQRLH MGHGAFLQHV VLAACALLCI LSIMLLPETK
	RKLLPEVLRD GELCRRPSLL RQPPPNRCDH VPLLATPNPA L
	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 Slc22a17 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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	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.
	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. 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.
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:	SLC22A17
Alternative Name:	Slc22a17 (SLC22A17 Products)
Background:	Cell surface receptor for LCN2 (24p3) that plays a key role in iron homeostasis and transport.
	Able to bind iron-bound LCN2 (holo-24p3), followed by internalization of holo-24p3 and release
	of iron, thereby increasing intracellular iron concentration and leading to inhibition of apoptosis.
	Also binds iron-free LCN2 (apo-24p3), followed by internalization of apo-24p3 and its
	association with an intracellular siderophore, leading to iron chelation and iron transfer to the
	extracellular medium, thereby reducing intracellular iron concentration and resulting in
	apoptosis. {ECO:0000269 PubMed:16377569}.
Molecular Weight:	44.4 kDa Including tag.
UniProt:	Q9D9E0
Pathways:	Transition Metal Ion Homeostasis
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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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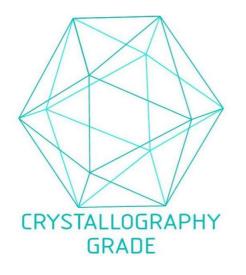


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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