antibodies

Datasheet for ABIN3136133 SLC38A9 Protein (AA 1-560) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	SLC38A9
Protein Characteristics:	AA 1-560
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC38A9 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	GVTMACFYPN IGGIIRYSGA ACGLAFVFIY PSLIYIISLH QEERLTWPKL VFHVIIIILG LANLIAQFFM
	KDCIEQNFLD NFPSSDILSF IARIFLLFQM MTVYPLLGYL ARVQLLGHIF GDIYPSIFHV LILNLVIVGA
	LMGVLTLAFF IHNCIITLLK NNKNQENNVR DLCIAYMLVT LTYLYIGILV FASFPSPPLP
	LLNFKSPSFF SKFNILGTVS VLYLIFVVTL KAVRLGFHLE FHWFVPTEFF VPEIRAQFPQ
	DTVLSTNNSN PVICPNAGSG GRPDNSSMIF YNNNTEVQLF EKWWDKSRTV PFYLIGLLLP
	TWEYPDVCKH YFGSFGQWSS LLFSLVSLIG AMIVYWVLMS NFLFNTGKFI FNFIHHINDT
	TIFMIWNTMM GTSILSIPWG IKQAGFTTGM CVIVLMGLLT LYCCYRVVKS RSTISTSDTS
	AAMNKRIHYY SRLTTPADKA LIAPDHVVPA PEECYVYSPL GSAYKLKSYT EGYGKNTSLV
Sequence:	MASVDGDSRH LLSEVEHEVS PGPMNIQFDS SDLRSKRPFY IEPTNIVNVN DVIQRVSDHA

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Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Mouse Slc38a9 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:
	1. 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

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Target Details

Target:	SLC38A9
Alternative Name:	SIc38a9 (SLC38A9 Products)
Background:	Lysosomal amino acid transporter involved in the activation of mTORC1 in response to amino acids. Probably acts as an amino acid sensor of the Rag GTPases and Ragulator complexes, 2 complexes involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Following activation by amino acids, the Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. SLC38A9 mediates transport of amino acids with low capacity and specificity with a slight preference for polar amino acids, suggesting that it acts as an amino acid sensor instead. The high concentration of arginine in lysosomes suggests that it acts as an arginine sensor. {EC0:0000250 UniProtKB:Q8NBW4}.
Molecular Weight:	64.6 kDa Including tag.
UniProt:	Q8BGD6
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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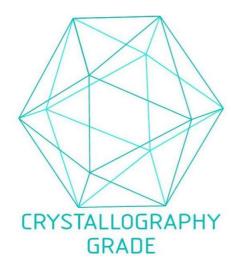


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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