antibodies

Datasheet for ABIN3113624 SLC1A2 Protein (AA 1-574) (Strep Tag)





Overview

Quantity:	1 mg
Target:	SLC1A2
Protein Characteristics:	AA 1-574
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC1A2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	KVTLAANGKS ADCSVEEEPW KREK
	GIVYHLSKSE LDTIDSQHRV HEDIEMTKTQ SIYDDMKNHR ESNSNQCVYA AHNSVIVDEC
	TATLASVGAA SIPSAGLVTM LLILTAVGLP TEDISLLVAV DWLLDRMRTS VNVVGDSFGA
	TFRCLEENLG IDKRVTRFVL PVGATINMDG TALYEAVAAI FIAQMNGVVL DGGQIVTVSL
	IAIKDLEVVA RQLGMYMVTV IIGLIIHGGI FLPLIYFVVT RKNPFSFFAG IFQAWITALG TASSAGTLPV
	NVLGLIGFFI AFGIAMGKMG DQAKLMVDFF NILNEIVMKL VIMIMWYSPL GIACLICGKI
	VQACFQQIQT VTKKVLVAPP PDEEANATSA VVSLLNETVT EVPEETKMVI KKGLEFKDGM
	MVYYMSTTII AAVLGVILVL AIHPGNPKLK KQLGPGKKND EVSSLDAFLD LIRNLFPENL
	GGLLRLASPI HPDVVMLIAF PGDILMRMLK MLILPLIISS LITGLSGLDA KASGRLGTRA
Sequence:	MASTEGANNM PKQVEVRMHD SHLGSEEPKH RHLGLRLCDK LGKNLLLTLT VFGVILGAVC

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification. These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). 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.
	Expression System:
	 ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required fo protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	Concentration:
	 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. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.

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	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	SLC1A2
Alternative Name:	SLC1A2 (SLC1A2 Products)
Background:	Excitatory amino acid transporter 2 (Glutamate/aspartate transporter II) (Sodium-dependent
	glutamate/aspartate transporter 2) (Solute carrier family 1 member 2),FUNCTION: Sodium-
	dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and
	also L-aspartate and D-aspartate (PubMed:7521911, PubMed:14506254, PubMed:15265858,
	PubMed:26690923). Functions as a symporter that transports one amino acid molecule
	together with two or three Na(+) ions and one proton, in parallel with the counter-transport of
	one K(+) ion (PubMed:14506254). Mediates Cl(-) flux that is not coupled to amino acid
	transport, this avoids the accumulation of negative charges due to aspartate and Na(+)
	symport (PubMed:14506254). Essential for the rapid removal of released glutamate from the
	synaptic cleft, and for terminating the postsynaptic action of glutamate (By similarity).
	{ECO:0000250 UniProtKB:P43006, ECO:0000269 PubMed:15265858,
	ECO:0000269 PubMed:26690923, ECO:0000269 PubMed:7521911}.
Molecular Weight:	62.1 kDa
UniProt:	P43004
Pathways:	Dicarboxylic Acid Transport
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
	guarantee though.

Comment: ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

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	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Images

Expiry Date:



Unlimited (if stored properly)

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

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