.-online.com antibodies

Datasheet for ABIN3095533 Sortilin 1 Protein (SORT1) (AA 78-755) (His tag)



Overview

Quantity:	1 mg
Target:	Sortilin 1 (SORT1)
Protein Characteristics:	AA 78-755
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sortilin 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	SAPGEDEECG RVRDFVAKLA NNTHQHVFDD LRGSVSLSWV GDSTGVILVL TTFHVPLVIM
	TFGQSKLYRS EDYGKNFKDI TDLINNTFIR TEFGMAIGPE NSGKVVLTAE VSGGSRGGRI
	FRSSDFAKNF VQTDLPFHPL TQMMYSPQNS DYLLALSTEN GLWVSKNFGG KWEEIHKAVC
	LAKWGSDNTI FFTTYANGSC KADLGALELW RTSDLGKSFK TIGVKIYSFG LGGRFLFASV
	MADKDTTRRI HVSTDQGDTW SMAQLPSVGQ EQFYSILAAN DDMVFMHVDE PGDTGFGTIF
	TSDDRGIVYS KSLDRHLYTT TGGETDFTNV TSLRGVYITS VLSEDNSIQT MITFDQGGRW
	THLRKPENSE CDATAKNKNE CSLHIHASYS ISQKLNVPMA PLSEPNAVGI VIAHGSVGDA
	ISVMVPDVYI SDDGGYSWTK MLEGPHYYTI LDSGGIIVAI EHSSRPINVI KFSTDEGQCW
	QTYTFTRDPI YFTGLASEPG ARSMNISIWG FTESFLTSQW VSYTIDFKDI LERNCEEKDY
	TIWLAHSTDP EDYEDGCILG YKEQFLRLRK SSVCQNGRDY VVTKQPSICL CSLEDFLCDF
	GYYRPENDSK CVEQPELKGH DLEFCLYGRE EHLTTNGYRK IPGDKCQGGV NPVREVKDLK
	KKCTSNFLSP EKQNSKSN

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3095533 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

	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. Human SORT1 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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to accord purification atom.
	 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:	>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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3095533 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

Target:	Sortilin 1 (SORT1)
Alternative Name:	SORT1 (SORT1 Products)
Background:	Functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the
	cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a
	pathway that is independent of the mannose-6-phosphate receptor (M6PR). Also required for
	protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by
	mediating endocytosis of the proapoptotic precursor forms of BDNF (proBDNF) and NGFB
	(proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the
	extracellular matrix during osteogenic differentiation by scavenging extracellular LPL. Probably
	required in adipocytes for the formation of specialized storage vesicles containing the glucose
	transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable
	pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport
	from the endoplasmic reticulum to the Golgi. {ECO:0000269 PubMed:10085125,
	EC0:0000269 PubMed:11331584, EC0:0000269 PubMed:11390366,
	EC0:0000269 PubMed:12209882, EC0:0000269 PubMed:12598608,
	EC0:0000269 PubMed:14657016, EC0:0000269 PubMed:14985763,
	EC0:0000269 PubMed:15313463, EC0:0000269 PubMed:15930396,
	EC0:0000269 PubMed:15987945}.
Molecular Weight:	76.7 kDa Including tag.
JniProt:	Q99523
Pathways:	Neurotrophin Signaling Pathway
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:	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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3095533 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

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)