Datasheet for ABIN3116966

Stabilin 2 (STAB2) (AA 1136-2551) protein (rho-1D4 tag)

1 Image

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Overview

Quantity:	1 mg
Target:	Stabilin 2 (STAB2)
Protein Characteristics:	AA 1136-2551
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	rho-1D4 tag
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	SLPNLLMRLE QMPDYSIFRG YIIQYNLANA IEAADAYTVF APNNNAIENY IREKKVLSLE EDVLRYHVVL EEKLLKNDLH NGMHRETMLG FSYFLSFFLH NDQLYVNEAP INYTNVATDK GVIHGLGKVL EIQKNRCDNN DTTIIRGRCR TCSSELTCPF GTKSLGNEKR RCIYTSYFMG RRTLFIGCQP KCVRTVITRE CCAGFFGPQC QPCPGNAQNV CFGNGICLDG VNGTGVCECG EGFSGTACET CTEGKYGIHC DQACSCVHGR CNQGPLGDGS CDCDVGWRGV HCDNATTEDN CNGTCHTSAN CLTNSDGTAS CKCAAGFQGN GTICTAINAC EISNGGCSAK ADCKRTTPGR RVCTCKAGYT GDGIVCLEIN PCLENHGGCD KNAECTQTGP NQAACNCLPA YTGDGKVCTL INVCLTKNGG CSEFAICNHT GQVERTCTCK PNYIGDGFTC RGSIYQELPK NPKTSQYFFQ LQEHFVKDLV GPGPFTVFAP LSAAFDEEAR VKDWDKYGLM PQVLRYHVVA CHQLLLENLK LISNATSLQG EPIVISVSQS TVYINNKAKI ISSDIISTNG IVHIIDKLLS PKNLLITPKD NSGRILQNLT TLATNNGYIK FSNLIQDSGL LSVITDPIHT PVTLFWPTDQ ALHALPAEQQ DFLFNQDNKD KLKEYLKFHV IRDAKVLAVD LPTSTAWKTL QGSELSVKCG AGRDIGDLFL NGQTCRIVQR

	ELLFDLGVAY GIDCLLIDPT LGGRCDTFTT FDASGECGSC VNTPSCPRWS KPKGVKQKCL YNLPFKRNLE GCRERCSLVI QIPRCCKGYF GRDCQACPGG PDAPCNNRGV CLDQYSATGE CKCNTGFNGT ACEMCWPGRF GPDCLPCGCS DHGQCDDGIT GSGQCLCETG WTGPSCDTQA VLPAVCTPPC SAHATCKENN TCECNLDYEG DGITCTVVDF CKQDNGGCAK VARCSQKGTK VSCSCQKGYK GDGHSCTEID PCADGLNGGC HEHATCKMTG PGKHKCECKS HYVGDGLNCE PEQLPIDRCL QDNGQCHADA KCVDLHFQDT TVGVFHLRSP LGQYKLTFDK AREACANEAA TMATYNQLSY AQKAKYHLCS AGWLETGRVA YPTAFASQNC GSGVVGIVDY GPRPNKSEMW DVFCYRMKDV NCTCKVGYVG DGFSCSGNLL QVLMSFPSLT NFLTEVLAYS NSSARGRAFL EHLTDLSIRG TLFVPQNSGL GENETLSGRD IEHHLANVSM FFYNDLVNGT TLQTRLGSKL LITASQDPLQ PTETRFVDGR AILQWDIFAS NGIIHVISRP LKAPPAPVTL THTGLGAGIF FAIILVTGAV ALAAYSYFRI NRRTIGFQHF ESEEDINVAA LGKQQPENIS NPLYESTTSA PPEPSYDPFT DSEERQLEGN DPLRTL **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 STAB2 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.

Product Details

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

Target Details

Target:	Stabilin 2 (STAB2)
Alternative Name:	STAB2 (STAB2 Products)
Background:	Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Hyaluronan receptor that binds to and mediates endocytosis of hyaluronic acid (HA). Acts also, in different species, as a primary systemic scavenger receptor for heparin (Hep), chondroitin sulfate (CS), dermatan sulfate (DS), nonglycosaminoglycan (GAG), acetylated low-density lipoprotein (AcLDL), pro-collagen propeptides and advanced glycation end products (AGE). May serve to maintain tissue integrity by supporting extracellular matrix turnover or it may contribute to maintaining fluidity of bodily liquids by resorption of hyaluronan. Counter receptor which plays an important role in lymphocyte recruitment in the hepatic vasculature. Binds to both Gram-positive and Gram-negative bacteria and may play a role in defense against bacterial infection. The proteolytically processed 190 kDa form also functions as an endocytosis receptor for heparin internalisation as well as HA and CS. {ECO:0000269|PubMed:12077138, ECO:0000269|PubMed:12473645, ECO:0000269|PubMed:15208308, ECO:0000269|PubMed:15572036, ECO:0000269|PubMed:17145755, ECO:0000269|PubMed:17675564, ECO:0000269|PubMed:17962816, ECO:0000269|PubMed:18230608, ECO:0000269|PubMed:18434317, ECO:0000269|PubMed:18573870, ECO:0000269|PubMed:19359419}.

Target Details

Molecular Weight:	155.2 kDa Including tag.
UniProt:	Q8WWQ8
Pathways:	Glycosaminoglycan Metabolic Process

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.
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)

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