

Datasheet for ABIN3136676

Stabilin 2 (STAB2) (AA 1136-2551) protein (rho-1D4 tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	Stabilin 2 (STAB2)
Protein Characteristics:	AA 1136-2551
Origin:	Mouse
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:	IPQRGLTGSL PSLLRLEQM PDYSIFRGYI IHYNLASAIE AADAYTVFVP NNEAIESYIR EKKATSLKED ILQYHVVLGE KLLRNDLHNG MHRETM LGFS YLLAFFLHND QLYVNEAPIN YTNVATDKGV IHGLEKVEI KKNRCDNNDT IIVRGKCGKC SQQTLCPLET KPLSETRKCI YSVYFMGKRS IFIGCQLQCV RTIITSACCA GFFGPQCQAC PGKGQNVCSG NGFCLDGVNG TGTCECEQGF NGTACETCTE GKYGIHCDQA CSCVHGRCNQ GPSGDGSCDC DVGWRGVKCD SEITTDNCNG TCHTSANCLL DPDGKASCKC AAGFQGNGTV CTAINACEIS NGGCSAKADC KRTIPGSRVC VCKAGYTG DG IVCLEINPCL ENHGGCDRHA ECTQTGPNQA VCNCLPKYTG DGKVCTLINV CLTNNGGCSP FAFCNHTEQD QRTCTCKPDY TGDGIVCRGS IHSELPKNPS TSQYFFQLQE HAVQELAGPG PFTVFVPSSD SFNSESCLKV WDKQGLMSQI LRYHVACQ LLENLKVIT SATTLQGEPI SISVSQDTVL INKKAKVLSS DIISTNGVIH VIDTLLSPQN LLITPKGASG RVLLNLTTVA ANHGYTKFSK LIQDSGLLKV ITDPMHTPVT LFWPTDKALQ ALPQEQQDFL FNEDNKDKLK AYLKFHVIRD TMALASDLPR SASWKT LQGS ELSVRCGTGS DVGELFLNGQ
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MCRIIQRRLL FDGGVAYGID CLLMDPTEGG RCDTFTTFNI PGECGSCFST PRCPLQSKPK
GVRKKCIYNP LPFRRDVEGC QNLCTLVVHV PRCCSGYFMP DCQACPGGPD TPCNNRGMCY
DQYKPTGQCQ CHTGFNGTAC ELCLPGRFGP DCQPCGCSEH GQCDEGITGS GQCLCEAGWT
GRFCDAPTUV IPVCIPACSM HATCMENNTC VCNLNYEGDG ITCTVDFCK QNNGGCAKVA
KCSQKGTQVS CSCQKGYKGD GHSCTEIDPC ANGVNGGCHE HATCRMTGPG KQKCECKSHY
VGDGRDCEPE QLPLDRCLQD NGQCHPDANC VDLHFQDTTV GVFLHRSPLG QYKLTFDKAK
EACAKEAASI ATYNQLSYAQ KAKYHLCSAG WLESGRVAYP TIYASKKCAN IVGIVDYGTR
TNKSEMWDVF CYRMKDVNCT CKAGYVGDGF SCNGNLLQVL MSFPSLTNFL TEVLVFSRSS
AQGRAFLKHL TDLISGTLF VPQNSGLPKN KSLSGRDIEH HLTNVNVSFY DDLVNGTVLK
TRLGSQLLIT SSQDQLHQEA RFVDGAILQ WDIIASNGVL HIISEPLKAP PTAATAAHSG
LGTGIFCAVV LVTGAIALAA YSYFRLNQRT TGFRRFESED DIDALAFGKQ QPESITNPLY
ETSTPAAPEP SCDPFTDSGE RELENS

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 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 receipt 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: <ol style="list-style-type: none">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.
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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin-free.
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Grade:	Crystallography grade
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Target Details

Target:	Stabilin 2 (STAB2)
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Alternative Name:	Stab2 (STAB2 Products)
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Background:	<p>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 short form also functions as an endocytosis receptor for heparin internalisation as well as HA and CS. {ECO:0000269 PubMed:15572036, ECO:0000269 PubMed:18230608}.</p>
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Molecular Weight:	154.7 kDa Including tag.
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UniProt:	Q8R4U0
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Pathways:	Glycosaminoglycan Metabolic Process
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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:	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)

Images



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