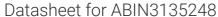
# antibodies .- online.com





# GPRASP1 Protein (AA 1-1347) (Strep Tag)



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### Overview

Quantity:	1 mg
Target:	GPRASP1
Protein Characteristics:	AA 1-1347
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPRASP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### **Product Details**

Sequence:

MTRAEVEPGA QAKAENKPGD ENANAAEVEP EAPLVVRPKV RTQIMTGARP KVKPKGTPGA RPKGETSTPG GAYAKCKPKA IPIARSKHDA QVWAPNKFRG ESMSKMGKQC QISAADPPLL SNDSGMVAQA KCLPVDRELA NMDTESIPKK ANSPAGFQPS YGSEEGTNMG SWYRARPVPK GEAYENSDFK WADKPSGSPS FWNRDEASTR FRPRKSMKAN NRFRHMAKQE ANTMPRHKNK QEFYNISSSD SEDESGKTPW FWPKDKTKVW SKPKEEPNSR SWFRSKKEVR VESTSGSECE NPTKSLFWSG EEAKSRSKPR ARKGVNMRAR QQAKREACSD AMSGAIDTNK KESWFLPEEK ANVFSKSKTK KEPRTRAVPK EEVKTKARAS TKQEARPEEE VLVGAWFWDT QESTMADRIS IKTTFVEEEP IVGDWFWSEE EASVDSETCH TSRPRAKEEQ VSSFCLGSGK KSSMESGPKA TSKSMPVAKE DEVVIGSWFW ADDEEINLQA DDESIFGSWF WGTGENSLRS VGVNCEKMPK AGEKEVTDSW FWAGDVNTEA EVEEQARSAS TKATIFVPWF WSEKQPNMDL GSEPCSDIMA GAEEEPIIGP WFWAKVDNSV EAEVNSKSSL EDEEEPIRSP WFGAREQTDM KYAAGIRYKP MAEAEDANKK SCVWAKEPCL YPTNRECLKS TLGEKEDTVD PWLWSNNYPR TKTITGSWLW

AAEEGNIDDE TGEKIKLPTL EDNAFNSWFW KENEESIVEA PKREEFRPEA EEEDIIGSWF
WAGDEDRFEP AAKINEENKI ASEDEDTVGS WFWGNEEASL EAVRRGTFES APGIKEEKVT
GSWFWTDKAK VGAGSQTVET GSETEEEAIF ESLIWAAKKD SIQAGVKRVS KPKDDGNIAV
GSWLWSSDKA TKEAKTLIVS EASPENGKES VVKFGSRAKD EVINKTGSGD NCKHSTEAET
IVGAWFWEGD EASFESNPVP VCKAVCEPES SAEHEPDPSR RPQSWDEVTV QFKAGPWGKA
GFPPMNPFRF PKEAASLFAE MFGGKPKLVE VGPEREPEPQ FPFQYDPSYR SVREIREHLK
ARESAQPENW SCNCIQCELR IGSEEFEELL LLMDRNRDPF IHEISKIAMG MRGASQFTRD
FIRNSGVVSL IEALLNYPSS RVRTRFLENM VRMAPPYPDL NMIETYVCQI CEDTFDYDLD
SPDQLSGLTM ITHLTATSDY HKVVVNYLAG FFYLLNSGNT KTRFHVLKLL LNLSENLVMT
KRLLVTDSVS EFMDLINREE SDENIQIVLA IFETISKHIQ KEALFSDDDD DDEEEDAVNL
EPFISAFREA EKIAKELKRK PGNQKAP

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you 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 posttranslational 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!

### 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.
- 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)

# **Target Details**

Target:	GPRASP1
Alternative Name:	Gprasp1 (GPRASP1 Products)
Background:	G-protein coupled receptor-associated sorting protein 1 (GASP-1),FUNCTION: Modulates lysosomal sorting and functional down-regulation of a variety of G-protein coupled receptors. Targets receptors for degradation in lysosomes via its interaction with BECN2. {ECO:0000269 PubMed:23954414}.
Molecular Weight:	151.7 kDa
UniProt:	Q5U4C1

# **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.

# **Application Details**

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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.
Expiry Date:	Unlimited (if stored properly)