



Datasheet for ABIN3094917

## RAB3IP Protein (AA 1-476) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	RAB3IP
Protein Characteristics:	AA 1-476
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB3IP protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MGLKMKGLS YDEAFAMAND PLEGFHEVNL ASPTSPDLLG VYESGTQEQT TSPSVIYRPH  
PSALSSVPIQ ANALDVSELP TQPVYSSPRR LNCAEISSIS FHVTDPA PCS TSGV TAGLTK  
L TTRK DNYNA EREFLQGATI TEACDGSDDI FGLSTDSL SR LRSPSVLEVR EKG YERLKEE  
LAKAQRELKL KDEECERLSK VRDQLGQELE ELTASLFEEA HKMVREANIK QATAEKQLKE  
AQQKIDVLQA EVAALKTLVL SSSPTSPTQE PLPGGKTPFK KGHTRNKSTS SAMSGSHQDL  
SVIQPIVKDC KEADLSLYNE FRLWKDEPTM DRTCPFLDKI YQEDIFPCLT FSKSELASAV  
LEAVENNTLS IEPVGLQPIR FVKASAVECG GPKKCALTGQ SKSCKHRIKL GDSSNYYYIS  
PFCRYRITSV CNFFTYIRYI QQGLVKQQDV DQMFWEVMQL RKEMSLAKLG YFKEEL

**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 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!

#### 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.

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#### 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.
2. 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.

## Product Details

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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

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Target:	RAB3IP
Alternative Name:	RAB3IP ( <a href="#">RAB3IP Products</a> )
Background:	<p>Rab-3A-interacting protein (Rab3A-interacting protein) (Rabin-3) (Rabin8) (SSX2-interacting protein),FUNCTION: Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B (PubMed:12221131, PubMed:26824392). Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form (PubMed:12221131, PubMed:26824392). Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5 (PubMed:20937701, PubMed:26824392). Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface (PubMed:12221131). Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis (PubMed:20890297). Part of the ciliary targeting complex containing Rab11, ASAP1, RAB3IP and RAB11FIP3 and ARF4 that promotes RAB3IP preciliary vesicle trafficking to mother centriole and ciliogenesis initiation (PubMed:31204173, PubMed:25673879). {ECO:0000269 PubMed:12221131, ECO:0000269 PubMed:20890297, ECO:0000269 PubMed:20937701, ECO:0000269 PubMed:25673879, ECO:0000269 PubMed:26824392, ECO:0000269 PubMed:31204173}.</p>
Molecular Weight:	53.0 kDa
UniProt:	<a href="#">Q96QF0</a>

## Application Details

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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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

## Application Details

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even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions: For Research Use only

## Handling

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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)

## Images

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