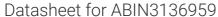
# antibodies .- online.com







## CHMP1B Protein (AA 1-199) (Strep Tag)



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Quantity:	1 mg
Target:	CHMP1B
Protein Characteristics:	AA 1-199
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHMP1B protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

#### **Product Details**

#### Sequence:

MSNMEKHLFN LKFAAKELNR SSKKCDKEEK AEKAKIKKAI OKGNMEVARI HAENAIROKN QGVNFLRMSA RVDAVAARVQ TAVTMGKVTK SMAGVVKSMD ATLKSMNLEK ISALMDKFEH QFETLDVQTQ QMEDTMSSTT TLTTPQNQVD MLLQEMADEA GLDLNMELPQ GQTGSVGTSV ASAEQDELSQ RLARLRDQV

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:	CHMP1B	
Alternative Name:	Chmp1b1 (CHMP1B Products)	
Background:	Charged multivesicular body protein 1B1 (Chromatin-modifying protein 1b-1) (CHMP1b-	
	1),FUNCTION: Probable peripherally associated component of the endosomal sorting required	
	for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs)	
	formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal	
	vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of	
	the endosome and mostly are delivered to lysosomes enabling degradation of membrane	
	proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB	
	pathway appears to require the sequential function of ESCRT-O, -I,-II and -III complexes. ESCRT	
	III proteins mostly dissociate from the invaginating membrane before the ILV is released. The	
	ESCRT machinery also functions in topologically equivalent membrane fission events, such as	
	the terminal stages of cytokinesis. ESCRT-III proteins are believed to mediate the necessary	
	vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA	
	ATPase VPS4. Involved in cytokinesis. Involved in recruiting VPS4A and/or VPS4B and SPAST	
	to the midbody of dividing cells (By similarity). {ECO:0000250}.	
Molecular Weight:	22.1 kDa	
UniProt:	Q99LU0	
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	
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.	
Comment:		
Comment:	guarantee though.	
Comment:	guarantee though.  ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from	
Comment:	guarantee though.  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	
Comment:	guarantee though.  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	
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## **Application Details**

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)	