antibodies

## Datasheet for ABIN3128800 TBC1D7 Protein (AA 1-293) (His tag)

Image



## Overview

Quantity:	1 mg
Target:	TBC1D7
Protein Characteristics:	AA 1-293
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D7 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	MTDDSQRNFR SVYYEKVGFR GVEEKKSLEI LLKDDRLDIE KLCTFSQRFP LPSMYRALVW
	KALLGILPPH HDTHSQVMAY RKDQYHDILH ALTVVRFISD ATPQAEVYLR MYQLESGKLP
	RSPSFPLEPE DEVFLAIAKA MEEMVEDSVD CYWISRCFVK QLNNKYRDAL PQLPKAFEQY
	LNLEDSRLLS HLKTCSAVSK LPYDLWFQRC FAGCLPESSL QRVWDKVVSG SCKILVFVAV
	EILLTFKIKV MALNSAEKIT KFLENIPQDS SDAIVSKAID LWHKHCGTPV HSA
	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 Tbc1d7 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

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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.
Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. In a first purification step, the protein is purified from the cleared cell lysate using three
different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 µm filtered
Protein is endotoxin free.

## Target Details

Target:	TBC1D7
Alternative Name:	Tbc1d7 (TBC1D7 Products)
Background:	Component of the TSC-TBC complex, that contains TBC1D7 in addition to the TSC1-TSC2
	complex and consists of the functional complex possessing GTPase-activating protein (GAP)

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	activity toward RHEB in response to alterations in specific cellular growth conditions. The small
	GTPase RHEB is a direct activator of the protein kinase activity of mTORC1 and the TSC-TBC
	complex acts as a negative regulator of mTORC1 signaling cascade by acting as a GAP for
	RHEB. Participates in the proper sensing of growth factors and glucose, but not amino acids, by
	mTORC1. It is unclear whether TBC1D7 acts as a GTPase-activating protein and additional
	studies are required to answer this question. {ECO:0000269 PubMed:22795129}.
Molecular Weight:	34.8 kDa Including tag.
UniProt:	Q9D0K0
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:	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)



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

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