

Datasheet for ABIN3120208

TPBG Protein (AA 32-361) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	TPBG
Protein Characteristics:	AA 32-361
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TPBG protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>SAPSSSV PSS STSPA A FLAS GSAQPPPAER CPAACECESEA ARTVKCVNRN LLEV PADLPP YVRNLFLTGN QMTVLPAGAF ARQPPLADLE ALNLSGNHLK EVCAGAFEHL PGLRRDL SH NPLTNLSAFA FAGSNASVSA PSPLEELILN HIVPPEDQRQ NGSFEGMVA F EGMVAAALRS GLALRGLTRL ELASNHFLFL PRDLLAQLPS LRYLDLRNNS LVSLTYASFR NLTHLESLHL EDNALKVLHN STLA EWHGLA HVKVFLDNNP WVCD CYMADM VAWLKETE VV PDKARLTCAF PEKMRNRGLL DLNSSDLDCD AVLPQSLQTS</p> <p>Sequence without tag.</p>
Specificity:	C-terminal Rho1D4-tag
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Mouse Tpbg 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).

Product Details

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.

Purification:	The protein is purified in three steps from baculovirus infected SF9 insect cells. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergents - Fos-Choline 14 and DDM - are used for solubilization and TPBG is purified via the C-terminal rho1D4 tag. Eluate fractions are analyzed by Western blot. Protein containing fractions of the best purification are subjected to a second purification step through size exclusion chromatography. 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:	TPBG
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Alternative Name:	Tpbg (TPBG Products)
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Background:	May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6
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Target Details

	and blocking Wnt3a-dependent LRP6 internalization. {ECO:0000250}.
Molecular Weight:	36.7 kDa Including tag.
UniProt:	Q9Z0L0

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:	in solution (20 mM Tris, pH 7.4, 100 mM NaCl)
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