antibodies

Datasheet for ABIN3113757 TMED10 Protein (AA 32-219) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	TMED10
Protein Characteristics:	AA 32-219
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMED10 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	ISFHLPINSR KCLREEIHKD LLVTGAYEIS DQSGGAGGLR SHLKITDSAG HILYSKEDAT
	KGKFAFTTED YDMFEVCFES KGTGRIPDQL VILDMKHGVE AKNYEEIAKV EKLKPLEVEL
	RRLEDLSESI VNDFAYMKKR EEEMRDTNES TNTRVLYFSI FSMFCLIGLA TWQVFYLRRF

FKAKKLIE

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.

- Human TMED10 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 experts in the lab will ensure that you receive a correctly folded protein.

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	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.
Purification:	 Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	TMED10
Alternative Name:	TMED10 (TMED10 Products)
Background:	Involved in vesicular protein trafficking. Mainly functions in the early secretory pathway.

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	Thought to act as cargo receptor at the lumenal side for incorporation of secretory cargo
	molecules into transport vesicles and to be involved in vesicle coat formation at the
	cytoplasmic side. In COPII vesicle-mediated anterograde transport involved in the transport of
	GPI-anchored proteins and proposed to act together with TMED2 as their cargo receptor, the
	function specifically implies SEC24C and SEC24D of the COPII vesicle coat and lipid raft-like
	microdomains of the ER. Recognizes GPI anchors structural remodeled in the ER by PGAP1 and
	MPPE1 (By similarity). In COPI vesicle-mediated retrograde transport involved in the biogenesis
	of COPI vesicles and vesicle coat recruitment. On Golgi membranes, acts as primary receptor
	for ARF1-GDP which is involved in COPI-vesicle formation. Increases coatomer-dependent
	GTPase-activating activity of ARFGAP2. Involved in trafficking of G protein-coupled receptors
	(GPCRs). Regulates F2LR1, OPRM1 and P2RY4 exocytic trafficking from the Golgi to the
	plasma membrane thus contributing to receptor resensitization. Involved in trafficking of
	amyloid beta A4 protein and soluble APP-beta release (independent of modulation of gamma-
	secretase activity). As part of the presenilin-dependent gamma-secretase complex regulates
	gamma-cleavages of the amyloid beta A4 protein to yield amyloid-beta 40 (Abeta40). Involved
	in organization of the Golgi apparatus. {ECO:0000250, ECO:0000269 PubMed:10052452,
	ECO:0000269 PubMed:11726511, ECO:0000269 PubMed:16641999,
	EC0:0000269 PubMed:17288597, EC0:0000269 PubMed:19296914,
	EC0:0000269 PubMed:20427317, EC0:0000269 PubMed:21219331}.
Molecular Weight:	22.9 kDa Including tag.
UniProt:	P49755
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:	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

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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)

Images



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