Datasheet for ABIN7544620

Tppp Protein (AA 1-219) (His tag)

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Overview

Quantity:	1 mg
Target:	Tppp
Protein Characteristics:	AA 1-219
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Tppp protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat TPPP Protein expressed in mammalien cells.
Sequence:	MADKAKPAKA ANRTPPKSPG DPSKDRAAKR LSLESEGAGE GAAASPELSA LEEAFRRFAV HGDARATGRE MHGKNWSKLC KDCQVIDGRN VTVTDVDIVF SKIKGKSCRT ITFEQFQEAL EELAKKRFKD KSSEEAVREV HRLIEGKAPI ISGVTKAISS PTVSRLTDTT KFTGSHKERF DPSGKGKGKA GRVDLVDESG YVSGYKHAGT YDQKVQGGK **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and

Product Details

	transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Tppp
Alternative Name:	TPPP (Tppp Products)
Background:	Tubulin polymerization-promoting protein (TPPP) (EC 3.6.5.-) (25 kDa brain-specific protein) (TPPP/p25) (p24) (p25-alpha),FUNCTION: Regulator of microtubule dynamics that plays a key role in myelination by promoting elongation of the myelin sheath (PubMed:31522887). Acts as a microtubule nucleation factor in oligodendrocytes: specifically localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, and promotes microtubule nucleation, an important step for elongation of the myelin sheath (PubMed:31522887, PubMed:33831707). Required for both uniform polarized growth of distal microtubules as well as directing the branching of proximal processes (PubMed:31522887). Shows magnesium-dependent GTPase activity, the role of the GTPase activity is unclear (PubMed:21995432, PubMed:21316364). In addition to microtubule nucleation activity, also involved in microtubule bundling and stabilization of existing microtubules, thereby maintaining the integrity of the microtubule network (PubMed:17105200, PubMed:17693641, PubMed:18028908, PubMed:26289831). Regulates microtubule dynamics by promoting tubulin acetylation: acts by inhibiting the tubulin deacetylase activity of HDAC6 (PubMed:20308065, PubMed:23093407). Also regulates cell migration: phosphorylation by ROCK1 inhibits interaction with HDAC6, resulting in decreased acetylation of tubulin and increased cell motility (PubMed:23093407). Plays a role in cell proliferation by regulating the G1/S-phase transition (PubMed:23355470). Involved in astral

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	microtubule organization and mitotic spindle orientation during early stage of mitosis, this process is regulated by phosphorylation by LIMK2 (PubMed:22328514). {ECO:0000269|PubMed:17105200, ECO:0000269|PubMed:17693641, ECO:0000269|PubMed:18028908, ECO:0000269|PubMed:20308065, ECO:0000269|PubMed:21316364, ECO:0000269|PubMed:21995432, ECO:0000269|PubMed:22328514, ECO:0000269|PubMed:23093407, ECO:0000269|PubMed:23355470, ECO:0000269|PubMed:26289831, ECO:0000269|PubMed:31522887}.
Molecular Weight:	23.7 kDa
UniProt:	O94811

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months