Datasheet for ABIN7563502

PAFAH1B1 Protein (AA 1-410) (His tag)

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Overview

Quantity:	1 mg
Target:	PAFAH1B1
Protein Characteristics:	AA 1-410
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAFAH1B1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Pafah1b1 Protein expressed in mammalien cells.
Sequence:	MVLSQRQRDE LNRAIADYLR SNGYEEAYSV FKKEAELDMN EELDKKYAGL LEKKWTSVIR LQKKVMELES KLNEAKEEFT SGGPLGQKRD PKEWIPRPPE KYALSGHRSP VTRVIFHPVF SVMVSASEDA TIKVWDYETG DFERTLKGHT DSVQDISFDH SGKLLASCSA DMTIKLWDFQ GFECIRTMHG HDHNVSSVAI MPNGDHIVSA SRDKTIKMWE VQTGYCVKTF TGHREWVRMV RPNQDGTLIA SCSNDQTVRV WVVATKECKA ELREHEHVVE CISWAPESSY SSISEATGSE TKKSGKPGPF LLSGSRDKTI KMWDVSTGMC LMTLVGHDNW VRGVLFHSGG KFILSCADDK TLRVWDYKNK RCMKTLNAHE HFVTSLDFHK TAPYVVTGSV DQTVKVWECR **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:

Product Details

	• 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 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:	PAFAH1B1
Alternative Name:	Pafah1b1 (PAFAH1B1 Products)
Background:	Platelet-activating factor acetylhydrolase IB subunit beta (Lissencephaly-1 protein) (LIS-1) (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha),FUNCTION: Regulatory subunit (beta subunit) of the cytosolic type I platelet-activating factor (PAF) acetylhydrolase (PAF-AH (I)), an enzyme that catalyzes the hydrolyze of the acetyl group at the sn-2 position of PAF and its analogs and participates in PAF inactivation. Regulates the PAF-AH (I) activity in a catalytic dimer composition-dependent manner (By similarity). Positively regulates the activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-mediated microtubule sliding by targeting dynein to the microtubule plus end. Required for several dynein- and microtubule-dependent processes such as the maintenance of Golgi integrity, the peripheral transport of microtubule fragments and the coupling of the nucleus and centrosome. Required during brain development for the proliferation of neuronal precursors and the migration of newly formed neurons from the ventricular/subventricular zone toward the cortical plate. Neuronal migration involves a process called nucleokinesis, whereby migrating cells extend an anterior process into which the nucleus

Target Details

	subsequently translocates. During nucleokinesis dynein at the nuclear surface may translocate the nucleus towards the centrosome by exerting force on centrosomal microtubules. Also required for proper activation of Rho GTPases and actin polymerization at the leading edge of locomoting cerebellar neurons and postmigratory hippocampal neurons in response to calcium influx triggered via NMDA receptors. May also play a role in other forms of cell locomotion including the migration of fibroblasts during wound healing. Non-catalytic subunit of an acetylhydrolase complex which inactivates platelet-activating factor (PAF) by removing the acetyl group at the SN-2 position. Required for dynein recruitment to microtubule plus ends and BICD2-bound cargos (By similarity). May modulate the Reelin pathway through interaction of the PAF-AH (I) catalytic dimer with VLDLR (PubMed:17330141). {ECO:0000250|UniProtKB:P43033, ECO:0000250|UniProtKB:P43034, ECO:0000255|HAMAP-Rule:MF_03141, ECO:0000269|PubMed:11056530, ECO:0000269|PubMed:11344260, ECO:0000269|PubMed:12796778, ECO:0000269|PubMed:12911752, ECO:0000269|PubMed:14507966, ECO:0000269|PubMed:14578885, ECO:0000269|PubMed:14691133, ECO:0000269|PubMed:15173193, ECO:0000269|PubMed:15473966, ECO:0000269|PubMed:16107726, ECO:0000269|PubMed:16203747, ECO:0000269|PubMed:16369480, ECO:0000269|PubMed:16481446, ECO:0000269|PubMed:17330141}.
Molecular Weight:	46.7 kDa
UniProt:	P63005
Pathways:	M Phase, Regulation of Cell Size

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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months