Datasheet for ABIN7555989

VPS41 Protein (AA 1-854) (His tag)

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Overview

Quantity:	1 mg
Target:	VPS41
Protein Characteristics:	AA 1-854
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS41 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat VPS41 Protein expressed in mammalien cells.
Sequence:	MAEAEEQETG SLEESTDESE EEESEEEPKL KYERLSNGVT EILQKDAASC MTVHDKFLAL GTHYGKVYLL DVQGNITQKF DVSPVKINQI SLDESGEHMG VCSEDGKVQV FGLYSGEEFH ETFDCPIKII AVHPHFVRSS CKQFVTGGKK LLLFERSWMN RWKSAVLHEG EGNIRSVKWR GHLIAWANNM GVKIFDIISK QRITNVPRDD ISLRPDMYPC SLCWKDNVTL IIGWGTSVKV CSVKERHASE MRDLPSRYVE IVSQFETEFY ISGLAPLCDQ LVVLSYVKEI SEKTEREYCA RPRLDIIQPL SETCEEISSD ALTVRGFQEN ECRDYHLEYS EGESLFYIVS PRDVVVAKER DQDDHIDWLL EKKKYEEALM AAEISQKNIK RHKILDIGLA YINHLVERGD YDIAARKCQK ILGKNAALWE YEVYKFKEIG QLKAISPYLP RGDPVLKPLI YEMILHEFLE SDYEGFATLI REWPGDLYNN SVIVQAVRDH LKKDSQNKTL LKTLAELYTY DKNYGNALEI YLTLRHKDVF QLIHKHNLFS SIKDKIVLLM DFDSEKAVDM LLDNEDKISI KKVVEELEDR PELQHVYLHK LFKRDHHKGQ RYHEKQISLY AEYDRPNLLP FLRDSTHCPL EKALEICQQR NFVEETVYLL

Product Details

	SRMGNSRSAL KMIMEELHDV DKAIEFAKEQ DDGELWEDLI LYSIDKPPFI TGLLNNIGTH VDPILLIHRI KEGMEIPNLR DSLVKILQDY NLQILLREGC KKILVADSLS LLKKMHRTQM KGVLVDEENI CESCLSPILP SDAAKPFSVV VFHCRHMFHK ECLPMPSMNS AAQFCNICSA KNRGPGSAIL EMKK **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 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:	VPS41
Alternative Name:	VPS41 (VPS41 Products)
Background:	Vacuolar protein sorting-associated protein 41 homolog (S53),FUNCTION: Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act in part as a core component of the putative HOPS endosomal tethering complex is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late

Target Details

	endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes (PubMed:23351085, PubMed:33851776). Involved in homotypic vesicle fusions between late endosomes and in heterotypic fusions between late endosomes and lysosomes implicated in degradation of endocytosed cargo (PubMed:9159129, PubMed:23167963, PubMed:25445562, PubMed:25908847). Required for fusion of autophagosomes with lysosomes (PubMed:25783203). Links the HOPS complex to endosomal Rab7 via its association with RILP and to lysosomal membranes via its association with ARL8B, suggesting that these interactions may bring the compartments to close proximity for fusion (PubMed:25445562, PubMed:25908847, PubMed:21802320). Involved in the direct trans-Golgi network to late endosomes transport of lysosomal membrane proteins independently of HOPS (PubMed:23322049). Involved in sorting to the regulated secretory pathway presumably implicating the AP-3 adapter complex (By similarity). May play a role in HOPS-independent function in the regulated secretory pathway (PubMed:24210660). {ECO:0000250|UniProtKB:D3ZVH6, ECO:0000269|PubMed:21802320, ECO:0000269|PubMed:23167963, ECO:0000269|PubMed:23322049, ECO:0000269|PubMed:25445562, ECO:0000269|PubMed:25783203, ECO:0000269|PubMed:25908847, ECO:0000269|PubMed:33851776, ECO:0000269|PubMed:9159129, ECO:0000305|PubMed:23167963, ECO:0000305|PubMed:23351085, ECO:0000305|PubMed:24210660, ECO:0000305|PubMed:25445562}.
Molecular Weight:	98.6 kDa
UniProt:	P49754

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