Datasheet for ABIN7553767

EHD3 Protein (AA 1-535) (His tag)

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Overview

Quantity:	1 mg
Target:	EHD3
Protein Characteristics:	AA 1-535
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHD3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat EHD3 Protein expressed in mammalien cells.
Sequence:	MFSWLGTDDR RRKDPEVFQT VSEGLKKLYK SKLLPLEEHY RFHEFHSPAL EDADFDNKPM VLLVGQYSTG KTTFIRYLLE QDFPGMRIGP EPTTDSFIAV MQGDMEGIIP GNALVVDPKK PFRKLNAFGN AFLNRFVCAQ LPNPVLESIS VIDTPGILSG EKQRISRGYD FAAVLEWFAE RVDRIILLFD AHKLDISDEF SEVIKALKNH EDKMRVVLNK ADQIETQQLM RVYGALMWSL GKIVNTPEVI RVYIGSFWSH PLLIPDNRKL FEAEEQDLFR DIQSLPRNAA LRKLNDLIKR ARLAKVHAYI ISSLKKEMPS VFGKDNKKKE LVNNLAEIYG RIEREHQISP GDFPNLKRMQ DQLQAQDFSK FQPLKSKLLE VVDDMLAHDI AQLMVLVRQE ESQRPIQMVK GGAFEGTLHG PFGHGYGEGA GEGIDDAEWV VARDKPMYDE IFYTLSPVDG KITGANAKKE MVRSKLPNSV LGKIWKLADI DKDGMLDDDE FALANHLIKV KLEGHELPNE LPAHLLPPSK RKVAE **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**

Product Details

	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:	EHD3
Alternative Name:	EHD3 (EHD3 Products)
Background:	EH domain-containing protein 3 (PAST homolog 3),FUNCTION: ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis (PubMed:25686250). In vitro causes tubulation of endocytic membranes (PubMed:24019528). Binding to phosphatidic acid induces its membrane tubulation activity (By similarity). Plays a role in endocytic transport. Involved in early endosome to recycling endosome compartment (ERC), retrograde early endosome to Golgi, and endosome to plasma membrane (rapid recycling) protein transport. Involved in the regulation of Golgi maintenance and morphology (PubMed:16251358, PubMed:17233914, PubMed:19139087, PubMed:23781025). Involved in the recycling of internalized D1 dopamine receptor (PubMed:21791287). Plays a role in cardiac protein trafficking probably implicating ANK2 (PubMed:20489164). Involved in the ventricular membrane targeting of SLC8A1 and CACNA1C and probably the atrial membrane localization of CACNA1GG and CACNA1H implicated in the regulation of atrial myocyte excitability and

Target Details

	cardiac conduction (By similarity). In conjunction with EHD4 may be involved in endocytic trafficking of KDR/VEGFR2 implicated in control of glomerular function (By similarity). Involved in the rapid recycling of integrin beta-3 implicated in cell adhesion maintenance (PubMed:23781025). Involved in the unidirectional retrograde dendritic transport of endocytosed BACE1 and in efficient sorting of BACE1 to axons implicating a function in neuronal APP processing (By similarity). Plays a role in the formation of the ciliary vesicle, an early step in cilium biogenesis, possibly sharing redundant functions with EHD1 (PubMed:25686250). {ECO:0000250|UniProtKB:Q9QXY6, ECO:0000269|PubMed:16251358, ECO:0000269|PubMed:17233914, ECO:0000269|PubMed:19139087, ECO:0000269|PubMed:21791287, ECO:0000269|PubMed:23781025, ECO:0000269|PubMed:24019528, ECO:0000269|PubMed:25686250, ECO:0000305|PubMed:20489164}.
Molecular Weight:	60.9 kDa
UniProt:	Q9NZN3

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