

Datasheet for ABIN3137385 EHD3 Protein (AA 1-535) (Strep Tag)



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Quantity:	250 μg
Target:	EHD3
Protein Characteristics:	AA 1-535
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHD3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Brand:	AliCE®
Sequence:	MFSWLGNDDR RKKDPEVFQT VSDGLKKLYK TKLLPLEEYY RFHEFHSPAL EDADFDNKPM
·	VLLVGQYSTG KTTFIRYLLE QDFPGMRIGP EPTTDSFIAV MQGDVEGIIP GNALVVDPKK
	PFRKLNAFGN AFLNRFVCAQ LPNAVLESIS VIDTPGILSG EKQRISRGYD FAAVLEWFAE
	RVDRIILLFD AHKLDISDEF SEVIKALKNH EDKMRVVLNK ADQIETQQLM RVYGALMWSL
	GKIVNTPEVI RVYIGSFWSH PLLIPDNRKL FEAEEQDLFR DIQSLPRNAA LRKLNDLIKR
	ARLAKVHAYI ISSLKKEMPS VFGKDTKKKE LVNNLAEIYG RIEREHQISP GDFPNLKRMQ
	DQLQAQDFSK FQPLKSKLLE VVDDMLAHDI AQLMVLVRQE ETQRPVQMVK GGAFEGTLQG
	PFGHGYGEGA GEGIDDAEWV VARDKPMYDE IFYTLSPVDG KITGANAKKE MVRSKLPNSV
	LGKIWKLADI DKDGMLDDEE FALANHLIKV KLEGHELPSE LPAHLLPPSK RKVSE
	Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	EHD3	
Alternative Name:	Ehd3 (EHD3 Products)	
Background:	EH domain-containing protein 3,FUNCTION: ATP- and membrane-binding protein that controls	
	membrane reorganization/tubulation upon ATP hydrolysis. In vitro causes tubulation of	
	endocytic membranes (By similarity). Binding to phosphatidic acid induces its membrane	
	tubulation activity (PubMed:26896729). 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 (By similarity). Involved in the recycling of	
	internalized D1 dopamine receptor (By similarity). Plays a role in cardiac protein trafficking	
	probably implicating ANK2. 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 cardiac conduction	
	(PubMed:20489164, PubMed:24759929, PubMed:25825486). In conjunction with EHD4 may b	
	involved in endocytic trafficking of KDR/VEGFR2 implicated in control of glomerular function	
	(PubMed:21408024). Involved in the rapid recycling of integrin beta-3 implicated in cell	
	adhesion maintenance (By similarity). 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. 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:Q9NZN3, ECO:0000269 PubMed:20489164,	
	ECO:0000269 PubMed:21408024, ECO:0000269 PubMed:24373286,	
	ECO:0000269 PubMed:24759929, ECO:0000269 PubMed:25686250,	
	ECO:0000269 PubMed:25825486, ECO:0000269 PubMed:26896729}.	
Molecular Weight:	60.8 kDa	
UniProt:	Q9QXY6	
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.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from	
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce	

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months