

## Product datasheet for **TP314168**

### EHD3 (NM\_014600) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human EH-domain containing 3 (EHD3), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC214168 representing NM_014600
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MFSWLGTD DRRRKDPEVFQTVSEGLKKLYKSKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTG  
KTTFIRYLLEQDFPGMRIGPEPTTDSFIAMVQGDMEGIIPGNALVDPKKPFRKLNAGNAFLNRFVCAQ  
LPNPVLESISVIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNH  
EDKMRVVLNKADQIETQQLMRVYGALMWSLKGKIVNTPEVIRVYIGSFWSHPLLIPDNRKLFEEAEQDLFR  
DIQSLPRNAALRKLNDLIKRRARLAKVHAYIISLKKEMPSVFGKDNKKKELVNNLAEIYGRIEREHQISP  
GDFPNLKRMQDQLQAQDFSKFQPLKSKLLEVDDMLAHDIAQLMVLVLRQEESQRPIQMVKGGAFEGTLHG  
PFGHGYGEGAGEGIDDAEWVWARDKPMYDEIFYTLSPVDGKITGANAKKEMVRSKLPNSVLGKIWKLADI  
DKDGM LDDDEFALANHLIKVKLEGHELPNELPAHLLPPSKR KVAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	60.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_055415](#)

Locus ID: 30845

UniProt ID: [Q9NZN3](#)

RefSeq Size: 3583

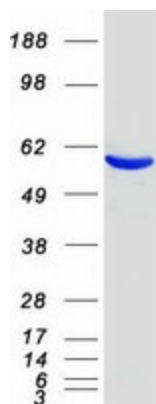
Cytogenetics: 2p23.1

RefSeq ORF: 1605

Synonyms: PAST3

**Summary:** 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 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).[UniProtKB/Swiss-Prot Function]

**Protein Pathways:** Endocytosis

**Product images:**

Coomassie blue staining of purified EHD3 protein (Cat# TP314168). The protein was produced from HEK293T cells transfected with EHD3 cDNA clone (Cat# [RC214168]) using MegaTran 2.0 (Cat# [TT210002]).