

Datasheet for ABIN7545169

WD Repeat Domain 45B (WDR45B) (AA 1-344) protein (His tag)



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Overview

Quantity:	1 mg
Target:	WD Repeat Domain 45B (WDR45B)
Protein Characteristics:	AA 1-344
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant WDR45B Protein expressed in mammalian cells.
Sequence:	MNLLPCNPHG NGLLYAGFNQ DHGCFACGME NGFRVYNTDP LKEKEKQEFL EGGVGHVEML FRCNYLALVG GGKKPKYPPN KVMIWDDLKK KTVIEIEFST EVKAVKLRRD RIVVLDMSI KVFTFTHNPH QLHVFETCYN PKGLCVLCPN SNNSLLAFPG THTGHVQLVD LASTEKPPVD IPAHEGVLSC IALNLQGTRI ATASEKGTLI RIFDTSSGHL IQELRRGSQA ANIYCINFNQ DASLICVSSD HGTVHIFAAE DPKRKNQSSL ASASFLPKYF SSKWSFSKFQ VPSGSPCICA FGTEPNAVIA ICADGSYYKF LFNPKGECIR DVYAQFLEMT DDKL 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	WD Repeat Domain 45B (WDR45B)
Alternative Name:	WDR45B (WDR45B Products)
Background:	WD repeat domain phosphoinositide-interacting protein 3 (WIPI-3) (WD repeat-containing protein 45-like) (WDR45-like protein) (WD repeat-containing protein 45B) (WIPI49-like protein),FUNCTION: Component of the autophagy machinery that controls the major intracellular degradation process by which cytoplasmic materials are packaged into autophagosomes and delivered to lysosomes for degradation (PubMed:28561066). Binds phosphatidylinositol 3-phosphate (PtdIns3P), and other phosphoinositides including PtdIns(3,5)P2, forming on membranes of the endoplasmic reticulum upon activation of the upstream ULK1 and PI3 kinases and is recruited at phagophore assembly sites where it regulates the elongation of nascent phagophores downstream of WIPI2 (PubMed:28561066, PubMed:30797857). In the cellular response to starvation, may also function together with the TSC1-TSC2 complex and RB1CC1 in the inhibition of the mTORC1 signaling pathway (PubMed:28503735). {ECO:0000269 PubMed:28503735, ECO:0000269 PubMed:28561066, ECO:0000269 PubMed:30797857}.
Molecular Weight:	38.1 kDa

Target Details

UniProt: [Q5MNZ6](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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