

Datasheet for ABIN7556037
WDR59 Protein (AA 1-974) (His tag)



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Overview

Quantity:	1 mg
Target:	WDR59
Protein Characteristics:	AA 1-974
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WDR59 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant WDR59 Protein expressed in mammalian cells.
Sequence:	MAARWSEENV VVEFRDSQAT AMSVDCLGQH AVLSGRRFLY IVNLDAPFEG HRKISRQSKW DIGAVQWNPH DSFAHYFAAS SNQRVDLYKW KDGSGEVGTT LQGHTRVISD LDWAVFEPDL LVTSSVDTYI YIWDIKDTRK PTVALSAVAG ASQVKWNKKN ANCLATSHDG DVRIWDKRKP STAVEYLA AH LSKIHGLDWH PDSEHILATS SQDNSVKFWD YRQPRKYLNI LPCQVPVWKA RYTPFSNGLV TVMVPQLRRE NSLLLWNVFD LNTPVHTFVG HDDVVLEFQW RKQKEGSKDY QLVTWSRDQT LRMWRVDSQM QRLCANDILD GVDEFIESIS LLPEPEKTLH TEDTDHQHTA SHGEEEALKE DPPRNLEER KSDQLGLPQT LQQEFLINV QIRNVNEMD AADRSCVSV HCSNHRVKML VKFPAQYPNN AAPSFQFINP TTITSTMKAK LLKILKDTAL QKVKRGQSCL EPCLRQLVSC LESFVNQEDS ASSNPFALPN SVTPPLPTFA RVTTAYGSYQ DANIPFPRTS GARFCGAGYL VYFTRPMTMH RAVSPTEPTP RLSALSAYH TGLIAPMKIR TEAPGNLRLY SGSPTRSEKE QVSISFYK ERKSRRWWSK REGSDSGNRQ IKAAGKVIIQ DIACLLPVHK SLGELYILNV NDIQETCQKN AASALLVGRK DLVQVWSLAT VATDLCLGPK SDPDLETPWA

Product Details

RHPFGRQLLE SLLAHYCRLR DVQTLAMLCS VFEAQRPPQ LPNPFPGFPN RSSNLVVS
RYPSTSSGS CSSMSDPGLN TGGWNIAGRE AEHLSSPWGE SSPEELRFGS LTYSDPRERE
RDQHDKNKRL LDPANTQQFD DFKKCYGEIL YRWGLREKRA EVLKFVSCPP DPHKGIEFGV
YCSHRSEVR GTQCAICKGF TFQCAICHVA VRGSSNFCLT CGHGGHTSHM MEWFRTQEV
PTGCGCHCLL ESTF **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:**

- 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: WDR59

Alternative Name: WDR59 ([WDR59 Products](#))

Background: GATOR2 complex protein WDR59 (WD repeat-containing protein 59),FUNCTION: As a component of the GATOR2 complex, functions as an activator of the amino acid-sensing branch of the mTORC1 signaling pathway (PubMed:25457612, PubMed:23723238, PubMed:27487210, PubMed:36528027, PubMed:36577058, PubMed:35831510). The GATOR2

Target Details

complex indirectly activates mTORC1 through the inhibition of the GATOR1 subcomplex (PubMed:23723238, PubMed:27487210, PubMed:36528027, PubMed:35831510). GATOR2 probably acts as an E3 ubiquitin-protein ligase toward GATOR1 (PubMed:36528027). In the presence of abundant amino acids, the GATOR2 complex mediates ubiquitination of the NPRL2 core component of the GATOR1 complex, leading to GATOR1 inactivation (PubMed:36528027). In the absence of amino acids, GATOR2 is inhibited, activating the GATOR1 complex (PubMed:25457612, PubMed:27487210). {ECO:0000269|PubMed:23723238, ECO:0000269|PubMed:25457612, ECO:0000269|PubMed:27487210, ECO:0000269|PubMed:35831510, ECO:0000269|PubMed:36528027, ECO:0000269|PubMed:36577058}.

Molecular Weight: 109.8 kDa

UniProt: [Q6PJ19](#)

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