

Datasheet for ABIN7545187
WDR41 Protein (AA 1-459) (His tag)



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Overview

Quantity:	1 mg
Target:	WDR41
Protein Characteristics:	AA 1-459
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WDR41 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat WDR41 Protein expressed in mammalian cells.
Sequence:	<p>MLRWLIGGGR EPQGLAEKSP LQTIGEEQTQ NPYTELLVLK AHHDIVRFLV QLDDYRFASA GDDGIVVWN AQTGEKLEL NGHTQKITAI ITFPSLESCE EKNQLILTAS ADRTVIVWDG DTTRQVQRIS CFQSTVKCLT VLQRLDVWLS GGNDLCVWNR KLDLLCKTSH LSDTGISALV EIPKNCVVA VVKELIIFRL VAPTEGSLEW DILEVKRLLD HQDNILSLIN VNDLSFVTGS HVGELIOWDA LDWTMQAYER NFWDPSPQLD TQQEIKLCQK SNDISIHHT CDEENVFAAV GRGLYVYSLQ MKRVIACQKT AHDSNVLHVA RLPNRQLISC SEDGSVRIWE LREKQQLAAE PVPTGFFNMW GFGRVSKQAS QPVKKQENA TSCSLELIGD LIGHSSSVEM FLYFEDHGLV TCSADHLIIL WKNGERESGL RSLRLFQKLE ENGDLYLAV 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.</p>

Product Details

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, Western Blot

Grade:

custom-made

Target Details

Target:

WDR41

Alternative Name:

WDR41 ([WDR41 Products](#))

Background:

WD repeat-containing protein 41,FUNCTION: Non-catalytic component of the C9orf72-SMCR8 complex, a complex that has guanine nucleotide exchange factor (GEF) activity and regulates autophagy (PubMed:27193190, PubMed:27103069, PubMed:27617292, PubMed:28195531). The C9orf72-SMCR8 complex promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB8A and RAB39B into their active GTP-bound form, thereby promoting autophagosome maturation (PubMed:27103069). As part of the C9orf72-SMCR8 complex, stimulates RAB8A and RAB11A GTPase activity in vitro, however WDR42 is shown not be an essential complex component for this function (PubMed:32303654). The C9orf72-SMCR8 complex also acts as a negative regulator of autophagy initiation by interacting with the ULK1/ATG1 kinase complex and inhibiting its protein kinase activity (PubMed:27103069, PubMed:27617292). {ECO:0000269|PubMed:27103069, ECO:0000269|PubMed:27193190, ECO:0000269|PubMed:27617292, ECO:0000269|PubMed:28195531, ECO:0000269|PubMed:32303654}.

Target Details

Molecular Weight: 51.7 kDa

UniProt: [Q9HAD4](#)

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