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Datasheet for ABIN7556048

**WASH3P Protein (AA 1-463) (His tag)**

## Overview

Quantity:	1 mg
Target:	WASH3P
Protein Characteristics:	AA 1-463
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WASH3P protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat WASH3P Protein expressed in mammalian cells.
Sequence:	MTPVRMQHSL AGQTYAVPLI QPDLRREEAV QQMADALQYL QKVSGDIFSR ISQQVEQSRS QVQAIGEKVS LAQAKIEKIK GSKKAIKVFS SAKYPAPERL QEYGSIFTGA QDPGLQRRPR HRIQSKHRPL DERALQEKDF PVCVSTKPEP EDDAEGLGG LPSNISSVSS LLLFNTTENL GKKYVFLDPL AGAVTKTHVM LGAETEEKLF DAPLSISKRE QLEQQVPENY FYVPDLGQVP EIDVPSYLPD LPGITNDLMY IADLPGIAP SAPGTIPELP TFHTEVAEPL KVDLQDGVLT PPPPPPPPPP APEVLASAPP LPPSTAAPVG QGARQDDSSS SASPSVQGAP REVVDPSGGR ATLLESIRQA GGIGKAKLRS MKERKLEKKQ QKEQEQVRAT SQGGHLMSDL FNKLVMRKRG ISGKGPAGE GPGGAFARVS DSIPPLPPPQ QPQAEEDDD WES <b>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.</b>

## Product Details

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

WASH3P

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### Alternative Name:

WASH3P

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### Background:

Putative WAS protein family homolog 3 (Protein FAM39DP),FUNCTION: Acts as a nucleation-promoting factor at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role in the fission of tubules that serve as transport intermediates during endosome sorting (PubMed:18159949, PubMed:20175130). Involved in endocytic trafficking of EGF (PubMed:20175130). Involved in transferrin receptor recycling. Regulates the trafficking of endosomal alpha5beta1 integrin to the plasma membrane and involved in invasive cell migration (By similarity). In T-cells involved in endosome-to-membrane recycling of receptors including T-cell receptor (TCR), CD28 and ITGAL, proposed to be implicated in T cell proliferation and effector function. In dendritic cells involved in endosome-to-membrane recycling of major histocompatibility complex (MHC) class II probably involving retromer and subsequently allowing antigen sampling, loading and presentation during T-cell activation. Involved in Arp2/3 complex-dependent actin assembly driving Salmonella typhimurium invasion independent of ruffling (By similarity). Involved in the

## Target Details

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exocytosis of MMP14 leading to matrix remodeling during invasive migration and implicating late endosome-to-plasma membrane tubular connections and cooperation with the exocyst complex (By similarity). Involved in negative regulation of autophagy independently from its role in endosomal sorting by inhibiting BECN1 ubiquitination to inactivate PIK3C3/Vps34 activity (By similarity). {ECO:0000250|UniProtKB:A8K0Z3, ECO:0000250|UniProtKB:Q8VDD8, ECO:0000269|PubMed:18159949, ECO:0000269|PubMed:20175130}.

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Molecular Weight: 50.0 kDa

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UniProt: [C4AMC7](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months