

Datasheet for ABIN7545443

## ZFYVE1 Protein (AA 1-777) (His tag)



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### Overview

Quantity:	1 mg
Target:	ZFYVE1
Protein Characteristics:	AA 1-777
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFYVE1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat ZFYVE1 Protein expressed in mammalian cells.
Sequence:	<p>MSAQTSPA EK GLNPGLMCQE SYACSGTDEA IFECDECCSL QCLRCEEELH RQERLRNHER</p> <p>IRLKPGHVPY CDLCKGLSGH LPGVRQRAIV RCQTCKINLC LECQKRTHSG GNKRRHPVTV</p> <p>YNVSNLQESL EAEEMDEETK RKKMTEKVV S FLLVDENEEI QVTNEEDFIR KLDCKPDQHL</p> <p>KVVSIFGNTG DGKSHTLNHT FFYGREVFKT SPTQESCTVG VWAAYDPVHK VAVIDTEGLL</p> <p>GATVNLSQRT RLLKVLAI S DLVIYRTHAD RLHNDLFKFL GDASEAYLKH FTKELKATTA</p> <p>RCGLDVPLST LGPAVIFHE TVHTQLLGSD HPSEVPEKLI QDRFRKLGRF PEAFFSSIIHYK</p> <p>GTRTYNPPTD FSGLRRALEQ LLENNTTRSP RHPGVIFKAL KALSDRFSGE IPDDQMAHSS</p> <p>FFPDEYFTCS SLCLSCGVGC KKS MNHGKEG VPHEAKSRCR YSHQYDNRVY TCKACYERGE</p> <p>EVSVPK TSA STDSPWMGLA KYAWSGYVIE CPNCGVVYRS RQYWFGNQDP VDTVVRTEIV</p> <p>HVWPGTDGFL KDNNNAAQRL LDGMNFMAQS VSELSLGPTK AVTSWLTDQI APAYWRPNSQ</p> <p>ILSCNKCATS FKDN DTKHHC RACGEGFCDS CSSKTRPVPE RGWGPAPVRV CDNCYEARNV</p>

QLAVTEAQVD DEGGTLIARK VGEAVQNTLG AVVTAIDIPL GLVKDAARPA YWVPDHEILH  
CHNCRKEFSI KLSKHHCRAC GQGFCDECSH DRRVPSRGW DHPVRVCFNC NKKPGDL

**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.**

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:

ZFYVE1

Alternative Name:

ZFYVE1 ([ZFYVE1 Products](#))

Background:

Zinc finger FYVE domain-containing protein 1 (Double FYVE-containing protein 1) (SR3) (Tandem FYVE fingers-1),FUNCTION: Plays a role in the formation of lipid droplets (LDs) which are storage organelles at the center of lipid and energy homeostasis (PubMed:30970241). Regulates the morphology, size and distribution of LDs (PubMed:31293035, PubMed:30970241). Mediates the formation of endoplasmic reticulum-lipid droplets (ER-LD) contacts by forming a complex with RAB18 and ZW10 (PubMed:30970241). Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through FYVE-type zinc finger (PubMed:11739631, PubMed:11256955). {ECO:0000269|PubMed:11256955, ECO:0000269|PubMed:11739631,

## Target Details

ECO:0000269|PubMed:30970241, ECO:0000269|PubMed:31293035}., FUNCTION: (Microbial infection) Upon SARS coronavirus-2/SARS-CoV-2 infection, mediates through binding with non-structural protein 6 (nsp6) the replication organelle-lipid droplet association required to sustain viral replication. {ECO:0000269|PubMed:35551511}.

Molecular Weight: 87.2 kDa

UniProt: [Q9HBF4](#)

## 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