

Datasheet for ABIN3093457

WWC1 Protein (AA 1-1113) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	WWC1
Protein Characteristics:	AA 1-1113
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WWC1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MPRPELPLPE GWEEARDFDG KVYYIDHTNR TTSWIDPRDR YTKPLTFADC ISDELPLGWE</p> <p>EAYDPQVG DY FIDHNTKTTQ IEDPRVQWRR EQEHMLKDY L VVAQEALSAQ KEIYQVKQQR</p> <p>LLEAQEQYQQ LHAVWEHKL G SQVSLVSGSS SSSKYDPEIL KAEIATAKSR VNKLKREMVH</p> <p>LQHELQFKER GFQTLKKIDK KMSDAQGSYK LDEAQAVLRE TKAIKKAITC GEKEKQDLIK</p> <p>SLAMLKDGFR TDRGSHSDLW SSSSSLESSS FPLPKQYLDV SSQTDISGSF GINSNNQLAE</p> <p>KVRLRLRYEE AKRRIANLKI QLAKLDSEAW PGVLDSEDR LILINEKEEL LKEMRFISPR</p> <p>KWTQGEVEQL EMARKRLEKD LQAARDTQSK ALTERKLNS KRNQLVRELE EATRQVATLH</p> <p>SQLKSLSSSM QSLSSGSSPG SLTSSRGSLV ASSLDSSTSA SFTDLYYDPF EQLDSELQSK</p> <p>VEFLLLEGAT GFRPSGCITT IHEDEVAKTQ KAEGGGRLQA LRSLSGTPKS MTSLSPRSSL</p> <p>SSPSPPCSPL MADPLLAGDA FLNSLEFEDP ELSATLCELS LGNSAQERYR LEEPGETEGKQ</p> <p>LGQAVNTAQG CGLKVACVSA AVSDESVAGD SGVYEASVQR LGASEAAAFD SDESEAVGAT</p>

RIQIALKYDE KNKQFALII QLSNLSALLQ QDQKVNIRV AVLPCESTT CLFTRPLDA
SDTLVFNEVF WVSMSYPALH QKTLRVDVCT TDRSHLEECL GGAQISLAEV CRSGERSTRW
YNLLSYKYLK KQSRELKPVG VMAPASGPAS TDAVSALLEQ TAVELEKRQE GRSSTQTLED
SWRYEETSEN EAVAEVEVEVE VEEVEEVEDV FTEKASPDMD GYPALKVDKE TNTETPAPSP
TVVRPKDRRV GTPSQGPFLR GSTIIRSKTF SPGPQSQYVC RLNRSDSDSS TLSKKPPFVR
NSLERRSVRM KRPSSVKSLR SERLIRTS LDLELDLQATRT WHSQLTQEIS VLKELKEQLE
QAKSHGEKEL PQWLREDERF RLLLRMLEKR QMDRAEHKGE LQTDKMMRAA AKDVHRLRGQ
SCKEPPEVQS FREKMAFFTR PRMNIPALSA DDV

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	WWC1
Alternative Name:	WWC1 (WWC1 Products)
Background:	<p>Protein KIBRA (HBeAg-binding protein 3) (Kidney and brain protein) (KIBRA) (WW domain-containing protein 1),FUNCTION: Negative regulator of the Hippo signaling pathway, also known as the Salvador-Warts-Hippo (SWH) pathway (PubMed:24682284). Enhances phosphorylation of LATS1 and YAP1 and negatively regulates cell proliferation and organ growth due to a suppression of the transcriptional activity of YAP1, the major effector of the Hippo pathway (PubMed:24682284). Along with NF2 can synergistically induce the phosphorylation of LATS1 and LATS2 and function in the regulation of Hippo signaling pathway (PubMed:20159598). Acts as a transcriptional coactivator of ESR1 which plays an essential role in DYNLL1-mediated ESR1 transactivation (PubMed:16684779). Regulates collagen-stimulated activation of the ERK/MAPK cascade (PubMed:18190796). Modulates directional migration of podocytes (PubMed:18596123). Plays a role in cognition and memory performance (PubMed:18672031). Plays an important role in regulating AMPA-selective glutamate receptors (AMPA-Rs) trafficking underlying synaptic plasticity and learning (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q5SXA9, ECO:0000269 PubMed:16684779, ECO:0000269 PubMed:18190796, ECO:0000269 PubMed:18596123, ECO:0000269 PubMed:18672031, ECO:0000269 PubMed:20159598, ECO:0000269 PubMed:24682284}.</p>
Molecular Weight:	125.3 kDa
UniProt:	Q8IX03

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.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months