antibodies

# Datasheet for ABIN3076449 UBA2 Protein (AA 1-640) (Strep Tag)

Image



#### Overview

Quantity:	1 mg	
Target:	UBA2	
Protein Characteristics:	AA 1-640	
Origin:	Human	
Source:	Tobacco (Nicotiana tabacum)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This UBA2 protein is labelled with Strep Tag.	
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA	

### Product Details

Sequence:	MALSRGLPRE LAEAVAGGRV LVVGAGGIGC ELLKNLVLTG FSHIDLIDLD TIDVSNLNRQ
	FLFQKKHVGR SKAQVAKESV LQFYPKANIV AYHDSIMNPD YNVEFFRQFI LVMNALDNRA
	ARNHVNRMCL AADVPLIESG TAGYLGQVTT IKKGVTECYE CHPKPTQRTF PGCTIRNTPS
	EPIHCIVWAK YLFNQLFGEE DADQEVSPDR ADPEAAWEPT EAEARARASN EDGDIKRIST
	KEWAKSTGYD PVKLFTKLFK DDIRYLLTMD KLWRKRKPPV PLDWAEVQSQ GEETNASDQQ
	NEPQLGLKDQ QVLDVKSYAR LFSKSIETLR VHLAEKGDGA ELIWDKDDPS AMDFVTSAAN
	LRMHIFSMNM KSRFDIKSMA GNIIPAIATT NAVIAGLIVL EGLKILSGKI DQCRTIFLNK
	QPNPRKKLLV PCALDPPNPN CYVCASKPEV TVRLNVHKVT VLTLQDKIVK EKFAMVAPDV
	QIEDGKGTIL ISSEEGETEA NNHKKLSEFG IRNGSRLQAD DFLQDYTLLI NILHSEDLGK
	DVEFEVVGDA PEKVGPKQAE DAAKSITNGS DDGAQPSTST AQEQDDVLIV DSDEEDSSNN
	ADVSEEERSR KRKLDEKENL SAKRSRIEQK EELDDVIALD
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	<ul> <li>Concentration:</li> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3076449 | 04/16/2024 | Copyright antibodies-online. All rights reserved. capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step<br/>through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and<br/>Western blot.Purity:>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.Endotoxin Level:Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)</td>Grade:Crystallography grade

#### Target Details

UBA2	
ne: UBA2 (UBA2 Products)	
SUMO-activating enzyme subunit 2 (EC 2.3.2) (Anthracycline-associated resistance ARX)	
(Ubiquitin-like 1-activating enzyme E1B) (Ubiquitin-like modifier-activating enzyme	
2),FUNCTION: The heterodimer acts as an E1 ligase for SUMO1, SUMO2, SUMO3, and probably	
SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a	
thioester bond between a SUMO protein and a conserved active site cysteine residue on	
UBA2/SAE2. {EC0:0000269 PubMed:11451954, EC0:0000269 PubMed:11481243,	
ECO:0000269 PubMed:15660128, ECO:0000269 PubMed:17643372,	
EC0:0000269 PubMed:19443651, EC0:0000269 PubMed:20164921}.	
71.2 kDa	
Q9UBT2	
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.	
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

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Application Details	
	mitochondria to drive the re-

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!

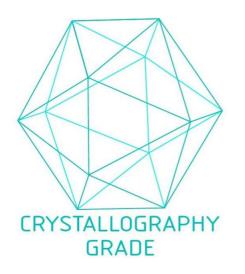
Restrictions:

For Research Use only

# Handling

Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process