antibodies

Datasheet for ABIN3092289 EIF2D Protein (AA 1-584) (Strep Tag)

Image



Overview

Quantity:	1 mg
Target:	EIF2D
Protein Characteristics:	AA 1-584
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF2D protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MFAKAFRVKS NTAIKGSDRR KLRADVTTAF PTLGTDQVSE LVPGKEELNI VKLYAHKGDA
	VTVYVSGGNP ILFELEKNLY PTVYTLWSYP DLLPTFTTWP LVLEKLVGGA DLMLPGLVMP
	PAGLPQVQKG DLCAISLVGN RAPVAIGVAA MSTAEMLTSG LKGRGFSVLH TYQDHLWRSG
	NKSSPPSIAP LALDSADLSE EKGSVQMDST LQGDMRHMTL EGEEENGEVH QAREDKSLSE
	APEDTSTRGL NQDSTDSKTL QEQMDELLQQ CFLHALKCRV KKADLPLLTS TFLGSHMFSC
	CPEGRQLDIK KSSYKKLSKF LQQMQQEQII QVKELSKGVE SIVAVDWKHP RITSFVIPEP
	SPTSQTIQEG SREQPYHPPD IKPLYCVPAS MTLLFQESGH KKGSFLEGSE VRTIVINYAK
	KNDLVDADNK NLVRLDPILC DCILEKNEQH TVMKLPWDSL LTRCLEKLQP AYQVTLPGQE
	PIVKKGRICP IDITLAQRAS NKKVTVVRNL EAYGLDPYSV AAILQQRCQA STTVNPAPGA
	KDSLQVQIQG NQVHHLGWLL LEEYQLPRKH IQGLEKALKP GKKK
	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

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	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 by multi-step, protein-specific process to ensure correct folding and modification. 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 will ensure that you receive a correctly folded 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 fo 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:
	 The concentration of our recombinant proteins is measured using the absorbance at 280nm The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
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 capture material. Eluate fractions are analyzed by SDS-PAGE.

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	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and 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)
Grade:	Crystallography grade

Target Details

Target:	EIF2D
Alternative Name:	EIF2D (EIF2D Products)
Background:	Eukaryotic translation initiation factor 2D (eIF2d) (Hepatocellular carcinoma-associated antigen
	56) (Ligatin),FUNCTION: Translation initiation factor that is able to deliver tRNA to the P-site of
	the eukaryotic ribosome in a GTP-independent manner. The binding of Met-tRNA(I) occurs after
	the AUG codon finds its position in the P-site of 40S ribosomes, the situation that takes place
	during initiation complex formation on some specific RNAs. Its activity in tRNA binding with
	40S subunits does not require the presence of the aminoacyl moiety. Possesses the unique
	ability to deliver non-Met (elongator) tRNAs into the P-site of the 40S subunit. In addition to its
	role in initiation, can promote release of deacylated tRNA and mRNA from recycled 40S
	subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into
	subunits. {ECO:0000269 PubMed:20566627, ECO:0000269 PubMed:20713520}.
Molecular Weight:	64.7 kDa
UniProt:	P41214
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

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Application Details	
	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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



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

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