Datasheet for ABIN3092483

EYA4 Protein (AA 1-639) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	EYA4
Protein Characteristics:	AA 1-639
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EYA4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEDSQDLNEQ SVKKTCTESD VSQSQNSRSM EMQDLASPHT LVGGGDTPGS SKLEKSNLSS TSVTTNGTGG ENMTVLNTAD WLLSCNTPSS ATMSLLAVKT EPLNSSETTA TTGDGALDTF TGSVITSSGY SPRSAHQYSP QLYPSKPYPH ILSTPAAQTM SAYAGQTQYS GMQQPAVYTA YSQTGQPYSL PTYDLGVMLP AIKTESGLSQ TQSPLQSGCL SYSPGFSTPQ PGQTPYSYQM PGSSFAPSST IYANNSVSNS TNFSGSQQDY PSYTAFGQNQ YAQYYSASTY GAYMTSNNTA DGTPSSTSTY QLQESLPGLT NQPGEFDTMQ SPSTPIKDLD ERTCRSSGSK SRGRGRKNNP SPPPDSDLER VFVWDLDETI IVFHSLLTGS YAQKYGKDPP MAVTLGLRME EMIFNLADTH LFFNDLEECD QVHIDDVSSD DNGQDLSTYS FATDGFHAAA SSANLCLPTG VRGGVDWMRK LAFRYRRVKE LYNTYKNNVG GLLGPAKRDA WLQLRAEIEG LTDSWLTNAL KSLSIISTRS NCINVLVTTT QLIPALAKVL LYSLGGAFPI ENIYSATKIG KESCFERIMQ RFGRKVVYVV IGDGVEEEQA AKKHNMPFWR ISSHSDLLAL HQALELEYL

Product Details

	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: • 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).

Product Details

Grade:	custom-made

Target Details

Target:	EYA4
Alternative Name:	EYA4 (EYA4 Products)
Background:	Eyes absent homolog 4 (EC 3.1.3.48),FUNCTION: Tyrosine phosphatase that specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). 'Tyr-142' phosphorylation of histone H2AX plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Promotes efficient DNA repair by dephosphorylating H2AX, promoting the recruitment of DNA repair complexes containing MDC1. Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. May be involved in development of the eye (By similarity). {ECO:0000250|UniProtKB:Q99502}.
Molecular Weight:	69.5 kDa
UniProt:	O95677
Pathways:	Sensory Perception of Sound

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