Datasheet for ABIN3137313

FANCA Protein (AA 1-1439) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	FANCA
Protein Characteristics:	AA 1-1439
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FANCA protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPGSPARGAA MGGGPRGLRK TWTELLAGRV KKQKYDPERE QKLKDSALKL LRYHQNMHDL LLEVEEPQCK RLRLSELIDR DSADASSDRS ASFIRSAFRD QASRLGVPVG VLSAKVFARS VQQVCVEPSH PVLLSPEQSK KLSSLLMIAR HLLAQNMFSR LTFCQELWKA QNSLLLEAMW RLHTHSVVSL QELLQSHPDS EAMAMWLFRN LRSLCEQIGA SCPSPDTTEA MLSGLVQLLI SRGFQGSSDP RRLVEPERLP QVATDVLQRM LAFSLDTLEA DPQTTLDCQA VSGWIPIYSG HTCCGVVTEN SLKSFFSHTL TQILTHKPVL KVSDAIQMQK EWSFAKTHHL LTDLHCRVLA TLGPEESVGR LQEVLEMQEV NWQHVLSCVS TLVVCFPEAQ QLVKGWVASL MARAFESYHL DSMVTAFLIV RQATLEGPYV FPSYADWFKE SFGSSHGYHS CSKKTLVFLF KFLSDLVPWE APRYMQVHIF HPPLVPSKYH SLLTDYISLA KTRLADLKVS LENVGLYEDL SSPGDIAERE SQAVQDVKKA IMVFEQTGKI PMPVLEASIF RRPYYVSHFL PTLLAPRVLP EVPDPRVALI ETLKRADKIP SSIYDAYRKA CASAEKQQPE NATSAQRTEA DCAKEPLGLL TAALEELRAL

MTDPTQYSVI SAQVAVVSEK LNAVLGHRND GGSLQRAKIQ LSVLPSTLQK QDQAVVDLLL TAFCQNLMAA SSFVPPERQS PWAVLFVRTL CGHVLLPAVL TRLRQLLRHQ GQSLSTSHVL GLAALAVHLG ECRSMLPEVD PDVLAPSAGS LCVPDFLNSL LTCRTRDSLL FCMNFCTAAV SYCLCKFSAL RNCLSPGLIK KFQFVVLRLF PEARAPCAPE HAACVPWRPL YLPSADWQRA ALSLWRRDSF QELLKDKEFY LTYRDWVQLE LEIQPEADVL SDMERHDFHQ WAIYERYLPA PTALGGCGGD LEEACTVLVS EIMDFHQSSR SYNHSEDSDL VLGGRTGNKD ILSRLQEIAL DLELDQGSAV PHGCSTPQSH FLFRVFRRRL QALARPDSMA TSLRRQQELL TCKRLLLCLP PSVLVGGPQA GQPISPNCGE FFSLVNSELR NFCCHGSVLT SDITIHFFRG LLRVCLRSQD PALVANQTLT ECQTKCPVIL TSALLWWSSL EPVLCGRWMR CYQSPLPREL RRLQEAREFA SNFASASASP APSPAWIAAA ALHFAWRGVR KEDVTAHLQR LDCQREELLI ALFFFSLMGL LSSYLTQRDT AEHLKAVDIC AEVLTCLERR KVSWLVLFQL TEKDAKLGHL LHLAPDQHTR LLPLAFYSLL SCFSEGAAVR EAAFLHVAVD MYLKLLQLFV DGETRLQGHS ESQGSPVQLI TKARVFLLQL IPQCPKQCFS NMTELLAGRG DCDPEVSNAL RQRQQADPSF DLYQEPQLF

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

Product Details

	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).
Grade:	custom-made

Target Details

Target:	FANCA
Alternative Name:	Fanca (FANCA Products)
Background:	Fanconi anemia group A protein homolog (Protein FACA),FUNCTION: DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be involved in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability (By similarity). {ECO:0000250}.
Molecular Weight:	161.2 kDa
UniProt:	Q9JL70
Pathways:	DNA Damage Repair

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

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	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