Datasheet for ABIN3119136

COL17A1 Protein (AA 1-1497) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	COL17A1
Protein Characteristics:	AA 1-1497
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COL17A1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MDVTKKNKRD GTEVTERIVT ETVTTRLTSL PPKGGTSNGY AKTASLGGGS RLEKQSLTHG SSGYINSTGS TRGHASTSSY RRAHSPASTL PNSPGSTFER KTHVTRHAYE GSSSGNSSPE YPRKEFASSS TRGRSQTRES EIRVRLQSAS PSTRWTELDD VKRLLKGSRS ASVSPTRNSS NTLPIPKKGT VETKIVTASS QSVSGTYDAT ILDANLPSHV WSSTLPAGSS MGTYHNNMTT QSSSLLNTNA YSAGSVFGVP NNMASCSPTL HPGLSTSSSV FGMQNNLAPS LTTLSHGTTT TSTAYGVKKN MPQSPAAVNT GVSTSAACTT SVQSDDLLHK DCKFLILEKD NTPAKKEMEL LIMTKDSGKV FTASPASIAA TSFSEDTLKK EKQAAYNADS GLKAEANGDL KTVSTKGKTT TADIHSYGSS GGGGSGGGGG VGGAGGGPWG PAPAWCPCGS CCSWWKWLLG LLLTWLLLLG LLFGLIALAE EVRKLKARVD ELERIRRSIL PYGDSMDRIE KDRLQGMAPA AGADLDKIGL HSDSQEELWM FVRKKLMMEQ ENGNLRGSPG PKGDMGSPGP KGDRGFPGTP GIPGPLGHPG PQGPKGQKGS VGDPGMEGPM GQRGREGPMG PRGEAGPPGS GEKGERGAAG EPGPHGPPGV PGSVGPKGSS GSPGPQGPPG PVGLQGLRGE VGLPGVKGDK GPMGPPGPKG DQGEKGPRGL

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TGEPGMRGLP GAVGEPGAKG AMGPAGPDGH QGPRGEQGLT GMPGIRGPPG PSGDPGKPGL TGPQGPQGLP GTPGRPGIKG EPGAPGKIVT SEGSSMLTVP GPPGPPGAMG PPGPPGAPGP AGPAGLPGHQ EVLNLQGPPG PPGPRGPPGP SIPGPPGPRG PPGEGLPGPP GPPGSFLSNS ETFLSGPPGP PGPPGPKGDQ GPPGPRGHQG EQGLPGFSTS GSSSFGLNLQ GPPGPPGPQG PKGDKGDPGV PGALGIPSGP SEGGSSSTMY VSGPPGPPGP PGPPGSISSS GQEIQQYISE YMQSDSIRSY LSGVQGPPGP PGPPGPVTTI TGETFDYSEL ASHVVSYLRT SGYGVSLFSS SISSEDILAV LQRDDVRQYL RQYLMGPRGP PGPPGASGDG SLLSLDYAEL SSRILSYMSS SGISIGLPGP PGPPGLPGTS YEELLSLLRG SEFRGIVGPP GPPGPPGIPG NVWSSISVED LSSYLHTAGL SFIPGPPGPP GPPGPRGPPG VSGALATYAA ENSDSFRSEL ISYLTSPDVR SFIVGPPGPP GPQGPPGDSR LLSTDASHSR GSSSSSHSSS VRRGSSYSSS MSTGGGGAGS LGAGGAFGEA AGDRGPYGTD IGPGGGYGAA AEGGMYAGNG GLLGADFAGD LDYNELAVRV SESMQRQGLL QGMAYTVQGP PGQPGPQGPP GISKVFSAYS NVTADLMDFF QTYGAIQGPP GQKGEMGTPG PKGDRGPAGP PGHPGPPGPR GHKGEKGDKG DQVYAGRRRR RSIAVKP

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 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 for

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Product 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!

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. 2. 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)

Target Details

Target:	COL17A1
Alternative Name:	COL17A1 (COL17A1 Products)
Background:	Collagen alpha-1(XVII) chain (180 kDa bullous pemphigoid antigen 2) (Bullous pemphigoid antigen 2) [Cleaved into: 120 kDa linear IgA disease antigen (120 kDa linear IgA dermatosis antigen) (Linear IgA disease antigen 1) (LAD-1), 97 kDa linear IgA disease antigen (97 kDa linear IgA bullous dermatosis antigen) (97 kDa LAD antigen) (97-LAD) (Linear IgA bullous disease antigen of 97 kDa) (LABD97)],FUNCTION: May play a role in the integrity of hemidesmosome and the attachment of basal keratinocytes to the underlying basement membrane., FUNCTION: The 120 kDa linear IgA disease antigen is an anchoring filament component involved in dermal-epidermal cohesion. Is the target of linear IgA bullous dermatosis autoantibodies.
Molecular Weight:	150.4 kDa

Target Details

UniProt:	Q9UMD9

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. 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)

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