Datasheet for ABIN3092240

Deltex Homolog 1 Protein (AA 1-620) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Deltex Homolog 1 (DTX1)
Protein Characteristics:	AA 1-620
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Deltex Homolog 1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSRPGHGGLM PVNGLGFPPQ NVARVVVWEW LNEHSRWRPY TATVCHHIEN VLKEDARGSV VLGQVDAQLV PYIIDLQSMH QFRQDTGTMR PVRRNFYDPS SAPGKGIVWE WENDGGAWTA YDMDICITIQ NAYEKQHPWL DLSSLGFCYL IYFNSMSQMN RQTRRRRRLR RRLDLAYPLT VGSIPKSQSW PVGASSGQPC SCQQCLLVNS TRAASNAILA SQRRKAPPAP PLPPPPPPGG PPGALAVRPS ATFTGAALWA APAAGPAEPA PPPGAPPRSP GAPGGARTPG QNNLNRPGPQ RTTSVSARAS IPPGVPALPV KNLNGTGPVH PALAGMTGIL LCAAGLPVCL TRAPKPILHP PPVSKSDVKP VPGVPGVCRK TKKKHLKKSK NPEDVVRRYM QKVKNPPDED CTICMERLVT ASGYEGVLRH KGVRPELVGR LGRCGHMYHL LCLVAMYSNG NKDGSLQCPT CKAIYGEKTG TQPPGKMEFH LIPHSLPGFP DTQTIRIVYD IPTGIQGPEH PNPGKKFTAR GFPRHCYLPN NEKGRKVLRL LITAWERRLI FTIGTSNTTG ESDTVVWNEI HHKTEFGSNL TGHGYPDASY LDNVLAELTA QGVSEAAAKA

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:	Deltex Homolog 1 (DTX1)
Alternative Name:	DTX1 (DTX1 Products)
Background:	E3 ubiquitin-protein ligase DTX1 (EC 2.3.2.27) (Protein deltex-1) (Deltex1) (hDTX1) (RING-type E3 ubiquitin transferase DTX1),FUNCTION: Functions as a ubiquitin ligase protein in vivo, mediating ubiquitination and promoting degradation of MEKK1, suggesting that it may regulate the Notch pathway via some ubiquitin ligase activity (By similarity). Regulator of Notch signaling, a signaling pathway involved in cell-cell communications that regulates a broad spectrum of cell-fate determinations. Mainly acts as a positive regulator of Notch, but it also acts as a negative regulator, depending on the developmental and cell context. Mediates the antineural activity of Notch, possibly by inhibiting the transcriptional activation mediated by MATCH1. Involved in neurogenesis, lymphogenesis and myogenesis, and may also be involved in MZB (Marginal zone B) cell differentiation. Promotes B-cell development at the expense of T-cell development, suggesting that it can antagonize NOTCH1. {ECO:0000250, ECO:0000269|PubMed:11564735, ECO:0000269|PubMed:11869684, ECO:0000269|PubMed:9590294}.
Molecular Weight:	67.4 kDa
UniProt:	Q86Y01
Pathways:	Notch Signaling

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

Application Details

	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