Datasheet for ABIN3136694

SSX2IP Protein (AA 1-615) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	SSX2IP
Protein Characteristics:	AA 1-615
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SSX2IP protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MGDWMTVTDP VLCTENKNLS QYTSETKMSP SSLYSQQVLC SSVPLSKNVH GVFGVFCTGE NIEQSISYLD QELTTFGFPS LYEESKSKEA KRELNIVAVL NCMNELLVLQ RKNLLAQESV ETQNLKLGSD MDHLQSCYAK LKEQLETSRR EMIGLQERDR QLQCKNRSLH QLLKNEKDEV QKLQNIIASR ATQYNHDVKR KEREYNKLKE RLHQLVMNKK DKNIAMDVLN YVGRADGKRG SWRTDKTEAR NEDEMYKILL NDYEYRQKQI LMENAELKKV LQQMKKEMIS LLSPQKKKPR ERAEDGTGTV AISDIEDDSG ELSRDSVWGL SCDTVREQLT NSIRKQWRIL KSHVEKLDNQ ASKVHSEGLN EEDVISRQDH EQETEKLELE IERCKEMIKA QQQLLQQQLA TTCDDDTTSL LRDCYLLEEK ERLKEEWTLF KEQKKNFERE RRSFTEAAIR LGLERKAFEE ERASWVKQQF LNMTNFDHQN SENVKLFSAF SGSSDPDNLI VHSRPRQKKL HSVANGVPAC TSKLTKSLPA SPSTSDFRQT HSCVSEHSSI SVLNITPEES KPSEVAREST DQKWSVQSRP SSREGCYSGC SSAFRSAHGD RDDLP
	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 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

Product Details

	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:	SSX2IP
Alternative Name:	Ssx2ip (SSX2IP Products)
Background:	Afadin- and alpha-actinin-binding protein (ADIP) (Afadin DIL domain-interacting protein),FUNCTION: Belongs to an adhesion system, which plays a role in the organization of homotypic, interneuronal and heterotypic cell-cell adherens junctions (AJs). May connect the nectin-afadin and E-cadherin-catenin system through alpha-actinin and may be involved in organization of the actin cytoskeleton at AJs through afadin and alpha-actinin (PubMed:12446711). Acts as a centrosome maturation factor, probably by maintaining the integrity of the pericentriolar material and proper microtubule nucleation at mitotic spindle poles. The function seems to implicate at least in part WRAP73, the SSX2IP:WRAP73 complex is proposed to act as regulator of spindle anchoring at the mitotic centrosome (By similarity). Involved in cell movement: localizes at the leading edge of moving cells in response to PDGF and is required for the formation of the leading edge and the promotion of cell movement, possibly via activation of Rac signaling (PubMed:22027834). Involved in ciliogenesis (By similarity). It is required for targeted recruitment of the BBSome, CEP290, RAB8, and SSTR3 to the cilia (By similarity). {ECO:0000250|UniProtKB:Q9Y2D8, ECO:0000269|PubMed:12446711, ECO:0000269|PubMed:22027834}.
Molecular Weight:	71.0 kDa
UniProt:	Q8VC66

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

Application Details

	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)