Datasheet for ABIN7555630

SUN2 Protein (AA 1-717) (His tag)

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Overview

Quantity:	1 mg
Target:	SUN2
Protein Characteristics:	AA 1-717
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUN2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SUN2 Protein expressed in mammalien cells.
Sequence:	MSRRSQRLTR YSQGDDDGSS SSGGSSVAGS QSTLFKDSPL RTLKRKSSNM KRLSPAPQLG PSSDAHTSYY SESLVHESWF PPRSSLEELH GDANWGEDLR VRRRRGTGGS ESSRASGLVG RKATEDFLGS SSGYSSEDDY VGYSDVDQQS SSSRLRSAVS RAGSLLWMVA TSPGRLFRLL YWWAGTTWYR LTTAASLLDV FVLTRRFSSL KTFLWFLLPL LLLTCLTYGA WYFYPYGLQT FHPALVSWWA AKDSRRPDEG WEARDSSPHF QAEQRVMSRV HSLERRLEAL AAEFSSNWQK EAMRLERLEL RQGAPGQGGG GGLSHEDTLA LLEGLVSRRE AALKEDFRRE TAARIQEELS ALRAEHQQDS EDLFKKIVRA SQESEARIQQ LKSEWQSMTQ ESFQESSVKE LRRLEDQLAG LQQELAALAL KQSSVAEEVG LLPQQIQAVR DDVESQFPAW ISQFLARGGG GRVGLLQREE MQAQLRELES KILTHVAEMQ GKSAREAAAS LSLTLQKEGV IGVTEEQVHH IVKQALQRYS EDRIGLADYA LESGGASVIS TRCSETYETK TALLSLFGIP LWYHSQSPRV ILQPDVHPGN CWAFQGPQGF AVVRLSARIR PTAVTLEHVP KALSPNSTIS SAPKDFAIFG FDEDLQQEGT

Product Details

	LLGKFTYDQD GEPIQTFHFQ APTMATYQVV ELRILTNWGH PEYTCIYRFR VHGEPAH **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SUN2
Alternative Name:	SUN2 (SUN2 Products)
Background:	SUN domain-containing protein 2 (Protein unc-84 homolog B) (Rab5-interacting protein) (Rab5IP) (Sad1/unc-84 protein-like 2),FUNCTION: As a component of the LINC (LInker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Specifically, SYNE2 and SUN2 assemble in arrays of transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and couple the nucleus to retrograde actin flow during actin-dependent nuclear movement. Required for interkinetic nuclear migration (INM) and essential for nucleokinesis

Target Details

	and centrosome-nucleus coupling during radial neuronal migration in the cerebral cortex and during glial migration. Required for nuclear migration in retinal photoreceptor progenitors implicating association with cytoplasmic dynein-dynactin and kinesin motor complexes, and probably B-type lamins, SUN1 and SUN2 seem to act redundantly. The SUN1/2:KASH5 LINC complex couples telomeres to microtubules during meiosis, SUN1 and SUN2 seem to act at least partial redundantly. Anchors chromosome movement in the prophase of meiosis and is involved in selective gene expression of coding and non-coding RNAs needed for gametogenesis. Required for telomere attachment to nuclear envelope and gametogenesis. May also function on endocytic vesicles as a receptor for RAB5-GDP and participate in the activation of RAB5. {ECO:0000250|UniProtKB:Q8BJS4, ECO:0000269|PubMed:18396275, ECO:0000305}.
Molecular Weight:	80.3 kDa
UniProt:	Q9UH99
Pathways:	Maintenance of Protein Location, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months