Datasheet for ABIN7555471

SENP1 Protein (AA 1-644) (His tag)

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Overview

Quantity:	1 mg
Target:	SENP1
Protein Characteristics:	AA 1-644
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SENP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SENP1 Protein expressed in mammalien cells.
Sequence:	MDDIADRMRM DAGEVTLVNH NSVFKTHLLP QTGFPEDQLS LSDQQILSSR QGHLDRSFTC STRSAAYNPS YYSDNPSSDS FLGSGDLRTF GQSANGQWRN STPSSSSSLQ KSRNSRSLYL ETRKTSSGLS NSFAGKSNHH CHVSAYEKSF PIKPVPSPSW SGSCRRSLLS PKKTQRRHVS TAEETVQEEE REIYRQLLQM VTGKQFTIAK PTTHFPLHLS RCLSSSKNTL KDSLFKNGNS CASQIIGSDT SSSGSASILT NQEQLSHSVY SLSSYTPDVA FGSKDSGTLH HPHHHHSVPH QPDNLAASNT QSEGSDSVIL LKVKDSQTPT PSSTFFQAEL WIKELTSVYD SRARERLRQI EEQKALALQL QNQRLQEREH SVHDSVELHL RVPLEKEIPV TVVQETQKKG HKLTDSEDEF PEITEEMEKE IKNVFRNGNQ DEVLSEAFRL TITRKDIQTL NHLNWLNDEI INFYMNMLME RSKEKGLPSV HAFNTFFFTK LKTAGYQAVK RWTKKVDVFS VDILLVPIHL GVHWCLAVVD FRKKNITYYD SMGGINNEAC RILLQYLKQE SIDKKRKEFD TNGWQLFSKK SQEIPQQMNG SDCGMFACKY ADCITKDRPI NFTQQHMPYF RKRMVWEILH RKLL **Sequence without tag. The**

Product Details

	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:	SENP1
Alternative Name:	SENP1 (SENP1 Products)
Background:	Sentrin-specific protease 1 (EC 3.4.22.-) (Sentrin/SUMO-specific protease SENP1),FUNCTION: Protease that catalyzes two essential functions in the SUMO pathway (PubMed:10652325, PubMed:15199155, PubMed:16253240, PubMed:16553580, PubMed:21829689, PubMed:21965678, PubMed:23160374, PubMed:24943844, PubMed:25406032, PubMed:29506078). The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins. The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein. Deconjugates SUMO1 from HIPK2 (PubMed:16253240). Deconjugates SUMO1 from HDAC1

Target Details

	and BHLHE40/DEC1, which decreases its transcriptional repression activity (PubMed:21829689). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (PubMed:23160374). Deconjugates SUMO2 from MTA1 (PubMed:21965678). Deconjugates SUMO1 from METTL3 (PubMed:29506078). Desumoylates CCAR2 which decreases its interaction with SIRT1 (PubMed:25406032). Deconjugates SUMO1 from GPS2 (PubMed:24943844). {ECO:0000269|PubMed:10652325, ECO:0000269|PubMed:15199155, ECO:0000269|PubMed:16253240, ECO:0000269|PubMed:16553580, ECO:0000269|PubMed:21829689, ECO:0000269|PubMed:21965678, ECO:0000269|PubMed:23160374, ECO:0000269|PubMed:24943844, ECO:0000269|PubMed:25406032, ECO:0000269|PubMed:29506078}.
Molecular Weight:	73.5 kDa
UniProt:	Q9P0U3
Pathways:	Positive Regulation of Endopeptidase Activity

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