Datasheet for ABIN7553936

FBXO7 Protein (AA 1-522) (His tag)

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Overview

Quantity:	1 mg
Target:	FBXO7
Protein Characteristics:	AA 1-522
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXO7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant FBXO7 Protein expressed in mammalian cells.
Sequence:	MRLRVRLLKR TWPLEVPETE PTLGHLRSHL RQSLLCTWGY SSNTRFTITL NYKDPLTGDE ETLASYGIVS GDLICLILQD DIPAPNIPSS TDSEHSSLQN NEQPSLATSS NQTSMQDEQP SDSFQGQAAQ SGVWNDDSML GPSQNFEAES IQDNAHMAEG TGFYPSEPML CSESVEGQVP HSLETLYQSA DCSDANDALI VLIHLLMLES GYIPQGTEAK ALSMPEKWKL SGVYKLQYMH PLCEGSSATL TCVPLGNLIV VNATLKINNE IRSVKRLQLL PESFICKEKL GENVANIYKD LQKLSRLFKD QLVYPLLAFT RQALNLPDVF GLVVLPLELK LRIFRLLDVR SVLSLSAVCR DLFTASNDPL LWRFLYLRDF RDNTVRVQDT DWKELYRKRH IQRKESPKGR FVMLLPSSTH TIPFYPNPLH PRPFPSSRLP PGIIGGEYDQ RPTLPYVGDP ISSLIPGPGE TPSQFPPLRP RFDPVGPLPG PNPILPGRGG PNDRFPFRPS RGRPTDGRLS FM **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.**

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	FBXO7
Alternative Name:	FBXO7 (FBXO7 Products)
Background:	F-box only protein 7,FUNCTION: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins and plays a role in several biological processes such as cell cycle, cell proliferation, or maintenance of chromosome stability (PubMed:15145941, PubMed:34791250). Recognizes and ubiquitinates BIRC2 and the cell cycle regulator DLGAP5 (PubMed:15145941, PubMed:16510124, PubMed:22212761). Plays a role downstream of PINK1 in the clearance of damaged mitochondria via selective autophagy (mitophagy) by targeting PRKN to dysfunctional depolarized mitochondria. Promotes MFN1 ubiquitination. Mediates the ubiquitination and proteasomal degradation of UXT isoform 2, thereby impairing the NF-kappa-B signaling pathway (PubMed:33010352). Inhibits NF-kappa-B pathway also by promoting the ubiquitination of TRAF2 (PubMed:22212761). Affects the

Target Details

	assembly state and activity of the proteasome in the cells including neurons by ubiquitinating the proteasomal subunit PSMA2 via 'Lys-63'-linked polyubiquitin chains (By similarity). Promotes 'Lys-48'-linked polyubiquitination SIRT7, leading to the hydrogen peroxide-induced cell death (PubMed:36646384). {ECO:0000250|UniProtKB:Q3U7U3, ECO:0000269|PubMed:15145941, ECO:0000269|PubMed:16510124, ECO:0000269|PubMed:22212761, ECO:0000269|PubMed:23933751, ECO:0000269|PubMed:33010352, ECO:0000269|PubMed:34791250, ECO:0000269|PubMed:36646384}.
Molecular Weight:	58.5 kDa
UniProt:	Q9Y3I1

Application Details

Application Notes:	We expect the protein to work for functional studies. 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