

Datasheet for ABIN7564227 FNIP2 Protein (AA 1-1108) (His tag)



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Overview

Quantity:	1 mg
Target:	FNIP2
Protein Characteristics:	AA 1-1108
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FNIP2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Fnip2 Protein expressed in mammalien cells.
Sequence:	MAPTLLQKLF NKRGGGAASA QARPPKEEPA FSWSCSEFGL SDIRLLVYQD CERRGRQVMF
	DSRAVQKMEE AAAQKAEDVP IKMSARCCQE SSSSSGSSSS GSSSSHGFGG SLQHAKQQLP
	KYQYTRPASD VSMLGEMMFG SVAMSYKGST LKIHYIRSPP QLMISKVFSA TMGSFCGSTN
	NLQDSFEYIN QDPQAGKLNT NQYNLGPFRT GSNLAHSTPV DMPSRGQNED RDSGIARSAS
	LSSLLITPFP SPSSSTSSSS SYQRRWLRSQ TTSLENGIFP RRSTDETFSL AEETCSSNPA
	MVRRKKIAIS IIFSLCEREA AQRDFQDFFF SHFPLFESHM NRLKGAIEKA MISCRKISES
	SLRVQFYVSR LMEALGEFRG TIWNLYSVPR IAEPVWLTMM SNTLEKNQLC QRFLKEFILL
	IEQVNKNQFF AALLTAVLTY HLAWVPTVMP VDHPPIKAFS EKRTSQSVNM LAKTHPYNPL
	WAQLGDLYGA IGSPVRLTRT VVIGKQKDLV QRILYVLTYF LRCSELQENQ LSWSGNPSED
	DQVINGSKII TALEKGEVEE SEYVVVTVSS EPALVPPILP QGTAERRSPE PTVVAEISEG
	VNTSELGHKP EKNRCKRPEQ NSEASSMGFQ EAEPDSSWIP QGIFCEDKQN DQEATQDCSS

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	SPPSCEVPRV RRRMDQQTLH SKLHGETLKK RAEQSAAWPC PDRHSQEDPP VEKVTFHIGS
	SISPESDFES RTKRMEERLK ACGHFHGASA SASSSMDTGL TQEQQGSGCS FKADFEKDIT
	PQDHSSGGEG VSEDRGLRAN MTHAVGQLSQ VDGPLAHSLC AAESGRRLLE QTRDVQLKGY
	KGPSSEPVPN RCRQQGGLLI AADVPYGDAS GKGNYRSEGD IPRNESLDSA LGDSDDEACV
	LALLELGHSC DRTEESLEVE LPLPRSQSTS KANVRNFGRS LLAGYCATYM PDLVLHGTSS
	DEKLKQCLAA DLVHTVHHPV LDEPIAEAVC IIADTDKWTV QVATSQRKVT DTMKLGQDVL
	VSSQVSSLLQ SILQLYKLHL PADFCIMHLE DRLQEMYLKS KMLSEYLRGH TRVHVKELSV
	VLGIESNDLP LLTAIASTHS PYVAQILL 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:	FNIP2
Alternative Name:	Fnip2 (FNIP2 Products)
Background:	Folliculin-interacting protein 2 (O6-methylguanine-induced apoptosis 1 protein),FUNCTION:
	Binding partner of the GTPase-activating protein FLCN: involved in the cellular response to
	amino acid availability by regulating the non-canonical mTORC1 signaling cascade controlling

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the MiT/TFE factors TFEB and TFE3 (PubMed:23582324). Required to promote FLCN		
recruitment to lysosomes and interaction with Rag GTPases, leading to activation of the non-		
canonical mTORC1 signaling (By similarity). In low-amino acid conditions, component of the		
lysosomal folliculin complex (LFC) on the membrane of lysosomes, which inhibits the GTPase-		
activating activity of FLCN, thereby inactivating mTORC1 and promoting nuclear translocation		
of TFEB and TFE3 (By similarity). Upon amino acid restimulation, disassembly of the LFC		
complex liberates the GTPase-activating activity of FLCN, leading to activation of mTORC1 and		
subsequent inactivation of TFEB and TFE3 (By similarity). Together with FLCN, regulates		
autophagy: following phosphorylation by ULK1, interacts with GABARAP and promotes		
autophagy (By similarity). In addition to its role in mTORC1 signaling, also acts as a co-		
chaperone of HSP90AA1/Hsp90: inhibits the ATPase activity of HSP90AA1/Hsp90, leading to		
activate both kinase and non-kinase client proteins of HSP90AA1/Hsp90 (By similarity). Acts as		
a scaffold to load client protein FLCN onto HSP90AA1/Hsp90 (By similarity). Competes with		
the activating co-chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal		
regulatory mechanism for chaperoning of client proteins (By similarity). May play a role in the		
signal transduction pathway of apoptosis induced by O6-methylguanine-mispaired lesions		
(PubMed:19137017). {ECO:0000250 UniProtKB:Q8TF40, ECO:0000250 UniProtKB:Q9P278,		
ECO:0000269 PubMed:19137017, ECO:0000269 PubMed:23582324}.		

Molecular Weight:	122.5 kDa
UniProt:	Q80TD3

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

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Handling	
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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