

Datasheet for ABIN7555805

TARBP2 Protein (AA 1-366) (His tag)



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Overview

Quantity:	1 mg
Target:	TARBP2
Protein Characteristics:	AA 1-366
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TARBP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TARBP2 Protein expressed in mammalian cells.
Sequence:	<p>MSEEEQGSGT TTGCGLPSIE QMLAANPGKT PISLLQEYGT RIGKTPVYDL LKAEGQAHQP NFTFRVTVGD TSCTGQGPSK KAAKHKAAEV ALKHLKGGSM LEPALEDSSS FSPLDSSLPE DIPVFTAAAA ATPVPSVLT RSPPMELQPP VSPQQSECNP VGALQELVVQ KGWRLPEYTV TQESGPAHRK EFTMTCRVER FIEIGSGTSK KLAKRNAAK MLLRVHTVPL DARDGNEVEP DDDHFSIGVG SRLDGLRNRG PGCTWDSLRLN SVGEKILSLR SCSLGSGLGAL GPACCRVLSE LSEEQAFHVS YLDIEELSLS GLCQCLVELS TQPATVCHGS ATTREAAARGE AARRALQYLK IMAGSK</p> <p>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.</p>
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:

Product Details

- 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:	TARBP2
Alternative Name:	TARBP2 (TARBP2 Products)
Background:	<p>RISC-loading complex subunit TARBP2 (TAR RNA-binding protein 2) (Trans-activation-responsive RNA-binding protein),FUNCTION: Required for formation of the RNA induced silencing complex (RISC). Component of the RISC loading complex (RLC), also known as the micro-RNA (miRNA) loading complex (miRLC), which is composed of DICER1, AGO2 and TARBP2. Within the RLC/miRLC, DICER1 and TARBP2 are required to process precursor miRNAs (pre-miRNAs) to mature miRNAs and then load them onto AGO2. AGO2 bound to the mature miRNA constitutes the minimal RISC and may subsequently dissociate from DICER1 and TARBP2. May also play a role in the production of short interfering RNAs (siRNAs) from double-stranded RNA (dsRNA) by DICER1 (By similarity) (PubMed:15973356, PubMed:16142218, PubMed:16271387, PubMed:16357216, PubMed:16424907, PubMed:17452327, PubMed:18178619). Binds in vitro to the PRM1 3'-UTR (By similarity). Seems to act as a repressor of translation (By similarity). For some pre-miRNA substrates, may also alter the choice of cleavage site by DICER1 (PubMed:23063653). Negatively regulates IRF7-mediated IFN-beta signaling triggered by viral infection by inhibiting the phosphorylation</p>

Target Details

of IRF7 and promoting its 'Lys'-48-linked ubiquitination and degradation (PubMed:30927622). {ECO:0000250|UniProtKB:P97473, ECO:0000255|HAMAP-Rule:MF_03034, ECO:0000269|PubMed:15973356, ECO:0000269|PubMed:16142218, ECO:0000269|PubMed:16271387, ECO:0000269|PubMed:16357216, ECO:0000269|PubMed:16424907, ECO:0000269|PubMed:17452327, ECO:0000269|PubMed:18178619, ECO:0000269|PubMed:23063653, ECO:0000269|PubMed:30927622}., FUNCTION: (Microbial infection) Binds to the HIV-1 TAR RNA which is located in the long terminal repeat (LTR) of HIV-1, and stimulates translation of TAR-containing RNAs (PubMed:2011739, PubMed:11438532, PubMed:12475984). This is achieved in part at least by binding to and inhibiting EIF2AK2/PKR, thereby reducing phosphorylation and inhibition of EIF2S1/eIF-2-alpha (PubMed:11438532). May also promote translation of TAR-containing RNAs independently of EIF2AK2/PKR (PubMed:12475984). Mediates recruitment of FTSJ3 methyltransferase to HIV-1 RNA, leading to 2'-O-methylation of the viral genome, allowing HIV-1 to escape the innate immune system (PubMed:30626973). {ECO:0000269|PubMed:11438532, ECO:0000269|PubMed:12475984, ECO:0000269|PubMed:2011739, ECO:0000269|PubMed:30626973}.

Molecular Weight:	39.0 kDa
UniProt:	Q15633
Pathways:	Regulatory RNA Pathways , Ribonucleoprotein Complex Subunit Organization

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