

Datasheet for ABIN7549310

MAF1 Protein (AA 1-256) (His tag)



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Overview

Quantity:	1 mg
Target:	MAF1
Protein Characteristics:	AA 1-256
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAF1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat MAF1 Protein expressed in mammalian cells.
Sequence:	<p>MKLENSSEFE AINSQTLVET GDAHIIGRIE SYSCKMAGDD KHMFKQFCQE GQPHVLEALS PPQTSGLSPLS RLSKSQGGEE EGPLSDKCSR KTLFYLIATL NESFRPDYDF STARSHEFSR EPSLSWVVNA VNCSLFSAVR EDFKDLKPQL WNAVDEEICL AECDIYSYNP DLSDDPFGED GSLWSFNFF YNKRLKRIVF FSCRSISGST YTPSEAGNEL DMELGEEVE EESRSGGSGA EETSTMEEDR VPVICI 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>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> • 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

Product Details

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: MAF1

Alternative Name: MAF1 ([MAF1 Products](#))

Background: Repressor of RNA polymerase III transcription MAF1 homolog,FUNCTION: Plays a role in the repression of RNA polymerase III-mediated transcription in response to changing nutritional, environmental and cellular stress conditions to balance the production of highly abundant tRNAs, 5S rRNA, and other small non-coding RNAs with cell growth and maintenance (PubMed:18377933, PubMed:20233713, PubMed:20516213, PubMed:20543138). Also plays a key role in cell fate determination by promoting mesoderm induction and adipocyte differentiation (By similarity). Mechanistically, associates with the RNA polymerase III clamp and thereby impairs its recruitment to the complex made of the promoter DNA, TBP and the initiation factor TFIIIB (PubMed:20887893, PubMed:17505538). When nutrients are available and mTOR kinase is active, MAF1 is hyperphosphorylated and RNA polymerase III is engaged in transcription. Stress-induced MAF1 dephosphorylation results in nuclear localization, increased targeting of gene-bound RNA polymerase III and a decrease in the transcriptional readout (PubMed:26941251). Additionally, may also regulate RNA polymerase I and RNA polymerase II-dependent transcription through its ability to regulate expression of the central initiation factor TBP (PubMed:17499043). {ECO:0000250|UniProtKB:Q9D0U6, ECO:0000269|PubMed:17499043, ECO:0000269|PubMed:17505538, ECO:0000269|PubMed:18377933, ECO:0000269|PubMed:20233713, ECO:0000269|PubMed:20516213,

Target Details

	ECO:0000269 PubMed:20543138, ECO:0000269 PubMed:20887893, ECO:0000269 PubMed:26941251}.
Molecular Weight:	28.8 kDa
UniProt:	Q9H063

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