

Maf1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI13208

Product Information

Application	WB
Primary Accession	Q9D0U6
Other Accession	NM_001164607 , NP_001158079
Reactivity	Human, Mouse, Rat, Pig, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28780

Additional Information

Gene ID	68877
Alias Symbol	1110068E11Rik, AU042856
Other Names	Repressor of RNA polymerase III transcription MAF1 homolog, Maf1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Maf1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Maf1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Maf1
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 (By similarity). Also plays a key role in cell fate determination by promoting mesoderm induction and adipocyte differentiation (PubMed: 30110641). 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. 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. 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 (By similarity).

Cellular Location

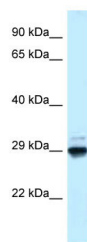
Nucleus. Cytoplasm {ECO:0000250 | UniProtKB:Q9H063}

References

Carninci P., et al. Science 309:1559-1563(2005).

Kantidakis T., et al. Proc. Natl. Acad. Sci. U.S.A. 107:11823-11828(2010).

Images



WB Suggested Anti-Maf1 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Kidney

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.