

Product Name: GRSF1 (18C16) Rabbit Monoclonal Antibody
Catalog #: AMRe11803

Summary

Production Name	GRSF1 (18C16) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	GRSF1
Alternative Names	GRSF1;
Gene ID	2926.0
SwissProt ID	Q12849.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	53kDa

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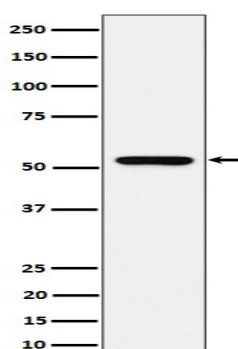


Background

Regulator of post-transcriptional mitochondrial gene expression, required for assembly of the mitochondrial ribosome and for recruitment of mRNA and lncRNA. Binds RNAs containing the 14 base G-rich element. Regulator of post-transcriptional mitochondrial gene expression, required for assembly of the mitochondrial ribosome and for recruitment of mRNA and lncRNA. Binds RNAs containing the 14 base G-rich element. Preferentially binds RNAs transcribed from three contiguous genes on the light strand of mtDNA, the ND6 mRNA, and the long non-coding RNAs for MT-CYB and MT-ND5, each of which contains multiple consensus binding sequences (PubMed: [23473033](http://www.uniprot.org/citations/23473033), PubMed: [23473034](http://www.uniprot.org/citations/23473034), PubMed: [29967381](http://www.uniprot.org/citations/29967381)). Involved in the degradosome-mediated decay of non-coding mitochondrial transcripts (MT-ncRNA) and tRNA-like molecules (PubMed: [29967381](http://www.uniprot.org/citations/29967381)). Acts by unwinding G-quadruplex RNA structures in MT-ncRNA, thus facilitating their degradation by the degradosome (PubMed: [29967381](http://www.uniprot.org/citations/29967381)). G-quadruplexes (G4) are non-canonical 4 stranded structures formed by transcripts from the light strand of mtDNA (PubMed: [29967381](http://www.uniprot.org/citations/29967381)).

Research Area

Image Data



Western blot analysis of GRSF1 expression in 293 cell lysate.

Note

For research use only.