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KD-Validated Anti-G-rich RNA sequence binding factor 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1978

Product Information

Application	WB, FC, ICC
Primary Accession	Q12849
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 1890
Calculated MW	53126
Gene Name	GRSF1
Aliases	GRSF1; G-Rich RNA Sequence Binding Factor 1; G-Rich Sequence Factor 1; GRSF-1
Immunogen	A synthesized peptide derived from human GRSF1

Additional Information

Gene ID	2926
Other Names	G-rich sequence factor 1, GRSF-1, GRSF1

Protein Information

Name	GRSF1
Function	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, PubMed:23473034, PubMed:29967381). Involved in the degradosome-mediated decay of non- coding mitochondrial transcripts (MT-ncRNA) and tRNA-like molecules (PubMed:29967381). Acts by unwinding G-quadruplex RNA structures in MT- ncRNA, thus facilitating their degradation by the degradosome (PubMed:29967381). G-quadruplexes (G4) are non-canonical 4 stranded structures formed by transcripts from the light strand of mtDNA (PubMed:29967381).
Cellular Location	[Isoform 1]: Mitochondrion matrix Note=Localizes to mitochondrial RNA granules found in close proximity to the mitochondrial nucleoids.

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