

GRSF1 Recombinant Rabbit mAb

Catalog # AP99154

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	Q12849
Other Accession	Q12849
Host	Rabbit
Clonality	Recombinant
Calculated MW	53126
Physical State	Liquid
Immunogen	A synthesized peptide derived from human GRSF 1
Epitope Specificity	110-150
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Regulator of post-transcriptional mitochondrial gene expression, required for assembly of the mitochondrial ribosome and for recruitment of mRNA and lncRNA.

Additional Information

Gene ID	2926
Other Names	GRSF1_HUMAN; GRSF1; GRSF-1; G-rich RNA sequence binding factor 1
Dilution	WB=1500-2000,ICC/IF=1:50-200,IP=1:20-50,Flow-Cyt=1:50-100,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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