

GRSF1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17673c**Specification**

GRSF1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q12849](#)**GRSF1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2926**Other Names**

G-rich sequence factor 1, GRSF-1, GRSF1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GRSF1 Antibody (Center) Blocking Peptide - 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.

GRSF1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

GRSF1 Antibody (Center) Blocking Peptide - Images

GRSF1 Antibody (Center) Blocking Peptide - Background

The protein encoded by this gene is a cellular protein that binds RNAs containing the G-rich element. The protein is localized in the cytoplasm, and has been shown to stimulate translation of viral mRNAs in vitro. Multiple transcript variants encoding different isoforms have been found for this gene.

GRSF1 Antibody (Center) Blocking Peptide - References

Kash, J.C., et al. J. Virol. 76(20):10417-10426(2002) Park, Y.W., et al. Proc. Natl. Acad. Sci. U.S.A. 96(12):6694-6699(1999) Banga, S.S., et al. Cytogenet. Cell Genet. 73(4):295-296(1996) Qian, Z., et al. Nucleic Acids Res. 22(12):2334-2343(1994)