

GRSF1 Rabbit mAb

Catalog No: #52767

Package Size: #52767-1 50ul #52767-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

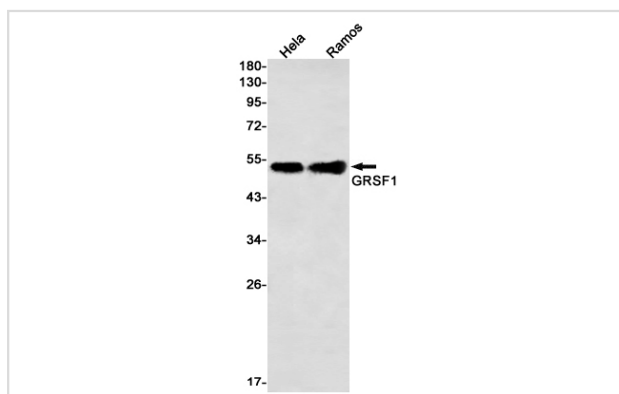
Description

Product Name	GRSF1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S06-2B5
Isotype	IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human GRSF1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	G-rich sequence factor 1
Accession No.	Swiss-Prot:Q12849GeneID:2926
Calculated MW	Calculated MW:53 kDa,Observed MW:53 kDa
Formulation	50nM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000

Images



Western blot detection of GRSF1 in HeLa,Ramos cell lysates using GRSF1 Rabbit mAb(1:1000 diluted).Predicted band size:53kDa.Observed band size:53kDa.

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. 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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.