

SNRPG Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20758a

Specification

SNRPG Antibody (N-term) - Product Information

Application	IF, WB,E
Primary Accession	P62308
Other Accession	P62309 , Q3ZBL0
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	8496

SNRPG Antibody (N-term) - Additional Information

Gene ID 6637

Other Names

Small nuclear ribonucleoprotein G, snRNP-G, Sm protein G, Sm-G, SmG, SNRPG, PBSCG

Target/Specificity

This SNRPG antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2-36 amino acids from the N-terminal region of human SNRPG.

Dilution

IF~~1:25

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SNRPG Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SNRPG Antibody (N-term) - Protein Information

Name SNRPG

Synonyms PBSCG

Function Plays a role in pre-mRNA splicing as a core component of the spliceosomal U1, U2, U4 and U5 small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome (PubMed:[11991638](#), PubMed:[18984161](#), PubMed:[19325628](#), PubMed:[23333303](#), PubMed:[25555158](#), PubMed:[26912367](#), PubMed:[28076346](#), PubMed:[28502770](#), PubMed:[28781166](#), PubMed:[32494006](#)). Component of both the pre-catalytic spliceosome B complex and activated spliceosome C complexes (PubMed:[11991638](#), PubMed:[28076346](#), PubMed:[28502770](#), PubMed:[28781166](#)). As a component of the minor spliceosome, involved in the splicing of U12-type introns in pre-mRNAs (PubMed:[15146077](#)). As part of the U7 snRNP it is involved in histone 3'-end processing (PubMed:[12975319](#)).

Cellular Location

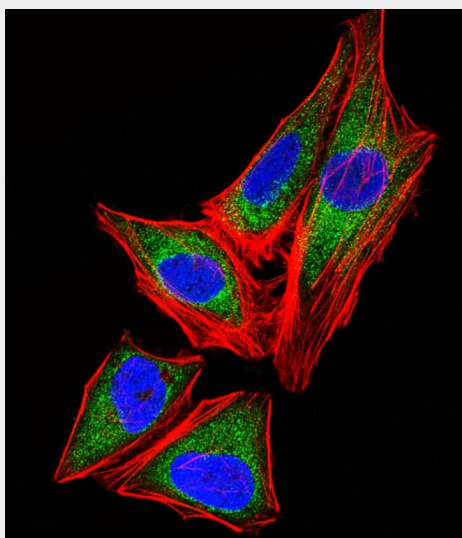
Cytoplasm, cytosol. Nucleus. Note=SMN- mediated assembly into core snRNPs occurs in the cytosol before SMN- mediated transport to the nucleus to be included in spliceosomes

SNRPG Antibody (N-term) - Protocols

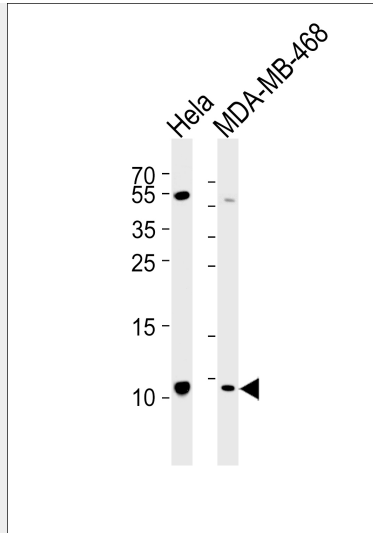
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SNRPG Antibody (N-term) - Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human Cervical epithelial adenocarcinoma cell line) cells labeling SNRPG with AP20758a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).



Western blot analysis of lysates from HeLa, MDA-MB-468 cell line (from left to right), using SNRPG Antibody (N-term)(Cat. #AP20758a). AP20758a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

SNRPG Antibody (N-term) - Background

Core component of the spliceosomal U1, U2, U4 and U5 small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in an heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. Appears to function in the U7 snRNP complex that is involved in histone 3'- end processing.

SNRPG Antibody (N-term) - References

- Hermann H.,et al.EMBO J. 14:2076-2088(1995).
- Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
- Hillier L.W.,et al.Nature 434:724-731(2005).
- Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
- Pillai R.S.,et al.EMBO J. 20:5470-5479(2001).