

SNRPE Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57773

Specification

SNRPE Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Physical State Immunogen Epitope Specificity Isotype Purity affinity purified by Protein A	IHC-P, IHC-F, IF, ICC, E <u>P62304</u> Pig, Bovine Rabbit Polyclonal 10 KDa Liquid KLH conjugated synthetic peptide derived from human SNRPE 51-92/92 IgG
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02%
SUBCELLULAR LOCATION	Proclin300 and 50% Glycerol. 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. Belongs to the snRNP Sm proteins family. U1 snRNP is for instance composed of the 7 core 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, and at least three U1 snRNP-specific proteins SNRNP70/U1-70K, SNRPA/U1-A and SNRPC/U1-C. Component of the U11/U12 snRNPs that are part of the U12-type spliceosome. Component of the heptameric ring U7 snRNP complex, or U7 Sm protein core complex, at least composed of LSM10, LSM11, SNRPB, SNRPD3, SNRPE, SNRPF, SNRPG and U7 snRNA. Part of the SMN-Sm complex that contains SMN1, GEMIN2/SIP1, DDX20/GEMIN3, GEMIN4, GEMIN5, GEMIN6, GEMIN7, GEMIN8, STRAP/UNRIP and the Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPD1, SNRPD2, SNRPE,
SIMILARITY SUBUNIT	



	SNRPF and SNRPG; ring-like structure
	where CLNS1A/plCln mimics additional Sm
	proteins and which is unable to assemble
	into the core snRNP.
DISEASE	Hypotrichosis 11 (HYPT11) [MIM:615059]:
	A form of hypotrichosis, a condition
	characterized by the presence of less than
	the normal amount of hair and abnormal
	hair follicles and shafts, which are thin and
	atrophic. The extent of scalp and body hair
	involvement can be very variable, within as
	well as between families. HYPT11 is
	characterized by scanty or absent
	evebrows and a highly variable degree of
	alopecia since birth, ranging from slight
	thinning of scalp and axillary hair to
	complete loss of scalp and body hair. Pubic
	hair remains mainly unaffected.
	{ECO:0000269 PubMed:23246290}.
	Note=The disease is caused by mutations
	affecting the gene represented in this
	entry
Important Note	This product as supplied is intended for
	research use only not for use in human
	therapoutic or diagnostic applications
	inerapeutic of utagnostic applications.

SNRPE Polyclonal Antibody - Additional Information

Gene ID 6635

Other Names Small nuclear ribonucleoprotein E, snRNP-E, Sm protein E, Sm-E, SmE, SNRPE

Target/Specificity Widely expressed. In scalp skin, it is present in the hair follicle, the epidermis, and the dermis.

Dilution

IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format 0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

SNRPE Polyclonal Antibody - Protein Information

Name SNRPE

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:23246290, 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.

Tissue Location

Widely expressed. In scalp skin, it is present in the hair follicle, the epidermis, and the dermis

SNRPE Polyclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

SNRPE Polyclonal Antibody - Images





Tissue/cell: mouse embryos tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-SNRPE Polyclonal Antibody, Unconjugated(bs-20169R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (mouse embryo); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SNRPE) Polyclonal Antibody, Unconjugated (bs-20169R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.