ARG40090
anti-SNRPD1 / Sm D1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SNRPD1 / Sm D1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SNRPD1 / Sm D1
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human SNRPD1 (NP_008869.1).
Conjugation	Un-conjugated
Alternate Names	Sm-D autoantigen; snRNP core protein D1; Sm-D1; Small nuclear ribonucleoprotein Sm D1; HsT2456; SMD1; SNRPD

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse kidney
Observed Size	16 kDa

Properties

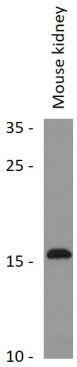
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SNRPD1
Gene Full Name	small nuclear ribonucleoprotein D1 polypeptide 16kDa
Background	This gene encodes a small nuclear ribonucleoprotein that belongs to the SNRNP core protein family. The protein may act as a charged protein scaffold to promote SNRNP assembly or strengthen SNRNP-SNRNP interactions through nonspecific electrostatic contacts with RNA. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]
Function	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. May act as a charged protein scaffold to promote snRNP assembly or strengthen snRNP-snRNP interactions through nonspecific electrostatic contacts with RNA. [UniProt]
Calculated Mw	13 kDa
PTM	Methylated on arginine residues by PRMT5 and PRMT7; probable asymmetric dimethylation which is required for assembly and biogenesis of snRNPs. [UniProt]
Cellular Localization	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. [UniProt]

Images



ARG40090 anti-SNRPD1 / Sm D1 antibody WB image

Western blot: 25 µg of Mouse kidney lysate stained with ARG40090 anti-SNRPD1 / Sm D1 antibody at 1:3000 dilution.