ARG40138
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
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SNRPD1 / Sm D1
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 69-98 of Human SNRPD1.
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
FACS	1:10 - 1:50
IHC-P	1:50 - 1:100
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: K562

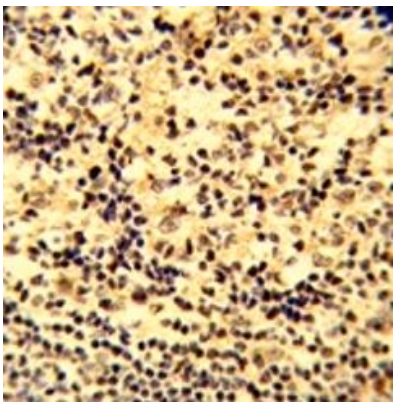
Properties

Form	Liquid
Purification	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
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 or below. 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

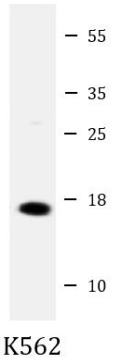
Gene Symbol	SNRPD1
Gene Full Name	small nuclear ribonucleoprotein D1 polypeptide 16kDa
Background	This gene encodes a small nuclear ribonucleoprotein that belongs to the SNRNP core protein family. The protein may act as a charged protein scaffold to promote SNRNP assembly or strengthen SNRNP-SNRNP interactions 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



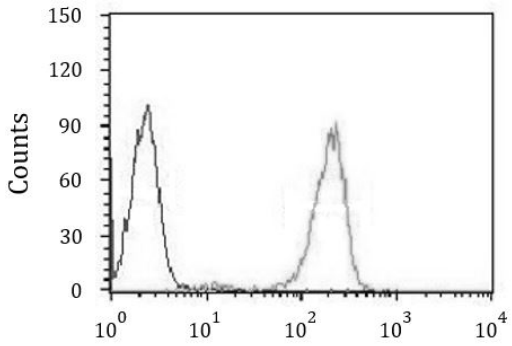
ARG40138 anti-SNRPD1 / Sm D1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human tonsil stained with ARG40138 anti-SNRPD1 / Sm D1 antibody.



ARG40138 anti-SNRPD1 / Sm D1 antibody WB image

Western blot: 20 µg of K562 whole cell lysate stained with ARG40138 anti-SNRPD1 / Sm D1 antibody at 1:1000 dilution.



ARG40138 anti-SNRPD1 / Sm D1 antibody FACS image

Flow Cytometry: HL-60 cells stained with ARG40138 anti-SNRPD1 / Sm D1 antibody (right histogram) or without primary antibody as control (left histogram), followed by incubation with FITC labelled secondary antibody.