Datasheet for ABIN7153753

anti-SIP1 antibody (AA 1-280)

3 Images

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Overview

Quantity:	100 µg
Target:	SIP1 (GEMIN2)
Binding Specificity:	AA 1-280
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant Human Gem-associated protein 2 protein (1-280AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	SIP1 (GEMIN2)
Alternative Name:	GEMIN2 (GEMIN2 Products)
Background:	Background: The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an

Target Details

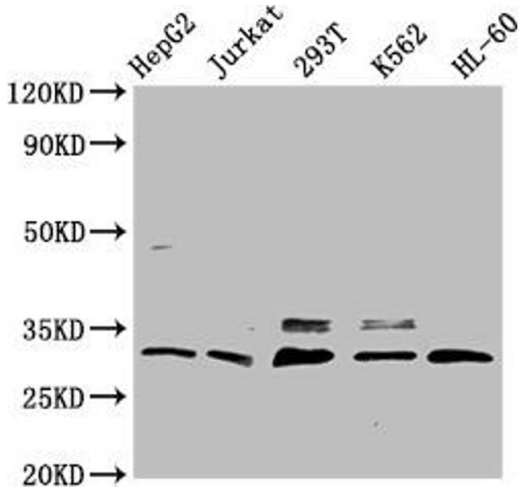
	important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. Aliases: Component of gems 2 antibody, Gem (nuclear organelle) associated protein 2 antibody, Gem associated protein 2 antibody, GEMI2_HUMAN antibody, Gemin-2 antibody, gemin2 antibody, SIP 1 antibody, SIP-1 antibody, SIP1 antibody, SIP1 delta antibody, SIP1-delta antibody, SMN interacting protein 1 antibody, SMN interacting protein 1 delta antibody, SMN-interacting protein 1 antibody, Survival interacting protein 1 antibody, Survival of motor neuron protein interacting protein 1 antibody, Survival of motor neuron protein-interacting protein 1 antibody
UniProt:	O14893
Pathways:	Ribonucleoprotein Complex Subunit Organization, Tube Formation

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IF:1:50-1:200, IP:1:200-1:2000,
Restrictions:	For Research Use only

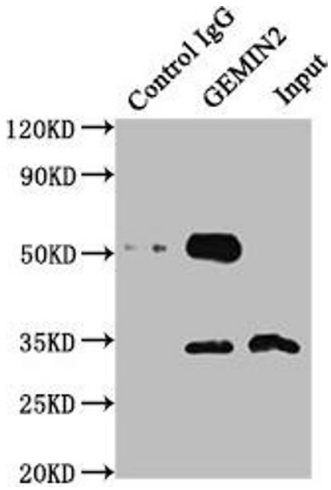
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



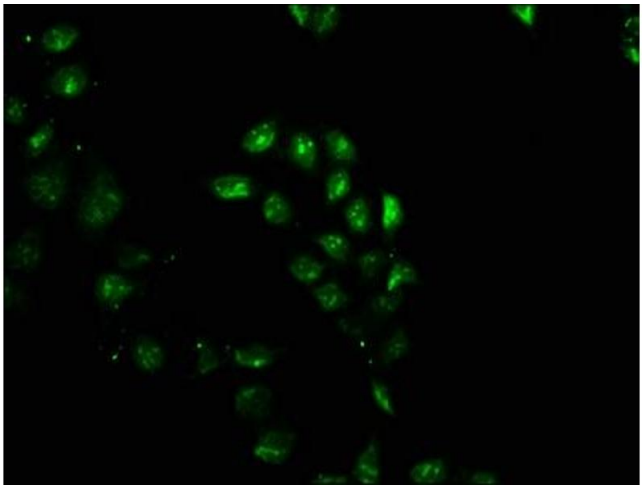
Western Blotting

Image 1. Western Blot Positive WB detected in: HepG2 whole cell lysate, Jurkat whole cell lysate, 293T whole cell lysate, K562 whole cell lysate, HL-60 whole cell lysate All lanes: GEMIN2 antibody at 3.7 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 32, 30, 29, 5 kDa Observed band size: 32 kDa



Western Blotting

Image 2. Immunoprecipitating GEMIN2 in 293T whole cell lysate Lane 1: Rabbit control IgG instead of ABIN7153753 in 293T whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/50000) Lane 2: ABIN7153753 (6 µg) + 293T whole cell lysate (0.5 mg) Lane 3: 293T whole cell lysate (20 µg)



Immunofluorescence

Image 3. Immunofluorescence staining of Hela cells with ABIN7153753 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).