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Sip1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11716

Specification

Sip1 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9CQQ4
Other Accession	NM_025656, NP_079932
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Dog**
Predicted	**Mouse, Chicken**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**30kDa KDa**

Sip1 antibody - N-terminal region - Additional Information

Gene ID 66603

Alias Symbol	**1700012N19Rik, Gemin2, Sip1**

Other Names
Gem-associated protein 2, Gemin-2, Component of gems 2, Survival of motor neuron protein-interacting protein 1, SMN-interacting protein 1, Gemin2, Sip1

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-Sip1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
Sip1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Sip1 antibody - N-terminal region - Protein Information

Name Gemin2 {ECO:0000312|MGI:MGI:1913853}

Synonyms Sip1

Function
The SMN complex catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome, and thereby plays an important role in the splicing of cellular pre- mRNAs (By similarity). 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 (Sm core) (By

similarity). In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG (5Sm) are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP (By similarity). To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A (By similarity). Binding of snRNA inside 5Sm ultimately triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRPB to complete assembly of the core snRNP (By similarity). Within the SMN complex, GEMIN2 constrains the conformation of 5Sm, thereby promoting 5Sm binding to snRNA containing the snRNP code (a nonameric Sm site and a 3'-adjacent stem-loop), thus preventing progression of assembly until a cognate substrate is bound (By similarity).

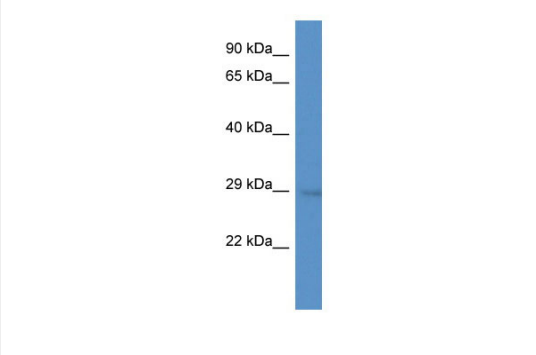
Cellular Location
Nucleus, gem. Cytoplasm. Note=Localized in subnuclear structures next to coiled bodies, called gems, which are highly enriched in spliceosomal snRNPs Also found in the cytoplasm (By similarity).

Sip1 antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Sip1 antibody - N-terminal region - Images



WB Suggested Anti-Sip1 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Brain