

**Gemin 2 Rabbit mAb**  
Catalog # AP78461**Specification****Gemin 2 Rabbit mAb - Product Information**

Application	WB
Primary Accession	<a href="#">O14893</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	31585

**Gemin 2 Rabbit mAb - Additional Information**

Gene ID 8487

**Other Names**  
GEMIN2**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**Gemin 2 Rabbit mAb - Protein Information****Name** GEMIN2 ([HGNC:10884](#))**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 (PubMed: [18984161](http://www.uniprot.org/citations/18984161), PubMed: [9323129](http://www.uniprot.org/citations/9323129)). 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) (PubMed: [18984161](http://www.uniprot.org/citations/18984161)). 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 (PubMed: [18984161](http://www.uniprot.org/citations/18984161)). To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A (PubMed: [18984161](http://www.uniprot.org/citations/18984161), PubMed: [9323129](http://www.uniprot.org/citations/9323129)). 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 (PubMed:<a href="http://www.uniprot.org/citations/31799625" target="\_blank">31799625</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/16314521" target="\_blank">16314521</a>, PubMed:<a href="http://www.uniprot.org/citations/21816274" target="\_blank">21816274</a>, PubMed:<a href="http://www.uniprot.org/citations/31799625" target="\_blank">31799625</a>).

### 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

### Gemin 2 Rabbit mAb - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Gemin 2 Rabbit mAb - Images

