

Gemin 5 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57783**Specification**

Gemin 5 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	Q8TEQ6
Reactivity	Rat, Pig, Dog, Cow
Host	Rabbit
Clonality	Polyclonal
Calculated MW	168589

Gemin 5 Polyclonal Antibody - Additional Information**Gene ID** 25929**Other Names**

Gem-associated protein 5, Gemin5, GEMIN5

Format0.01M TBS(pH7.4) with 1% BSA, 0.09%
(W/V) sodium azide and 50% Glyce**Storage**Store at -20 °C for one year. Avoid repeated
freeze/thaw cycles. When reconstituted in
sterile pH 7.4 0.01M PBS or diluent of
antibody the antibody is stable for at least
two weeks at 2-4 °C.**Gemin 5 Polyclonal Antibody - Protein Information****Name** GEMIN5**Function**Required for the assembly of the SMN
complex that plays a catalyst role in the
assembly of small nuclear
ribonucleoproteins (snRNPs), the building
blocks of the spliceosome (PubMed:<a href
="http://www.uniprot.org/citations/1685759
3" target="_blank">16857593,
PubMed:<a href="http://www.uniprot.org/ci
tations/18984161"

target="_blank">18984161,
PubMed:<a href="http://www.uniprot.org/citations/20513430"
target="_blank">20513430). 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
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 (PubMed:<a href="http://www.uniprot.org/citations/18984161"
target="_blank">18984161).
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 (PubMed:<a href="http://www.uniprot.org/citations/18984161"
target="_blank">18984161). GEMIN5
acts as the snRNA-binding protein of the
SMN complex (PubMed:<a href="http://www.uniprot.org/citations/11714716"
target="_blank">11714716,
PubMed:<a href="http://www.uniprot.org/citations/16857593"
target="_blank">16857593,
PubMed:<a href="http://www.uniprot.org/citations/19377484"
target="_blank">19377484,
PubMed:<a href="http://www.uniprot.org/citations/19750007"
target="_blank">19750007,
PubMed:<a href="http://www.uniprot.org/citations/20513430"
target="_blank">20513430,
PubMed:<a href="http://www.uniprot.org/citations/27834343"
target="_blank">27834343,
PubMed:<a href="http://www.uniprot.org/citations/27881600"
target="_blank">27881600,
PubMed:<a href="http://www.uniprot.org/citations/27881601"
target="_blank">27881601). Binds to
the 7-methylguanosine cap of RNA
molecules (PubMed:<a href="http://www.uniprot.org/citations/19750007"
target="_blank">19750007,
PubMed:<a href="http://www.uniprot.org/citations/27834343"

target="_blank">27834343,
PubMed:<a href="http://www.uniprot.org/citations/27881600"
target="_blank">27881600,
PubMed:<a href="http://www.uniprot.org/citations/27881601"
target="_blank">27881601, Ref.25).
Binds to the 3'-UTR of SMN1 mRNA and
regulates its translation; does not affect
mRNA stability (PubMed:<a href="http://www.uniprot.org/citations/25911097"
target="_blank">25911097). May play
a role in the regulation of protein synthesis
via its interaction with ribosomes
(PubMed:<a href="http://www.uniprot.org/citations/27507887"
target="_blank">27507887).

Cellular Location

Nucleus, nucleoplasm. Nucleus, gem.
Cytoplasm. Note=Found both in the
nucleoplasm and in nuclear bodies called
gems (Gemini of Cajal bodies) that are
often in proximity to Cajal (coiled) bodies
Also found in the cytoplasm.

Gemin 5 Polyclonal Antibody - 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](#)