10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GEMIN4 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20185a

Specification

GEMIN4 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P57678
Other Accession	NP_056536.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**120037**
Antigen Region	**273-301**

GEMIN4 Antibody (N-term) - Additional Information

Gene ID 50628

Other Names
Gem-associated protein 4, Gemin-4, Component of gems 4, p97, GEMIN4

Target/Specificity
This GEMIN4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 273-301 amino acids from the N-terminal region of human GEMIN4.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GEMIN4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GEMIN4 Antibody (N-term) - Protein Information

Name GEMIN4

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. 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). 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. To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A forming an intermediate. Binding of snRNA inside 5Sm triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRPB to complete assembly of the core snRNP.

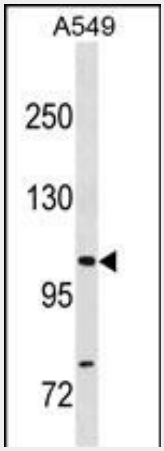
Cellular Location
Cytoplasm. Nucleus. Nucleus, nucleolus. Nucleus, gem. Note=Localized in subnuclear structures next to coiled bodies, called gems, which are highly enriched in spliceosomal snRNPs and in the nucleolus

GEMIN4 Antibody (N-term) - 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

GEMIN4 Antibody (N-term) - Images



GEMIN4 Antibody (N-term) (Cat. #AP20185a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the GEMIN4 antibody detected the GEMIN4 protein (arrow).

GEMIN4 Antibody (N-term) - Background

The product of this gene is part of a large complex localized to the cytoplasm, nucleoli, and to discrete nuclear bodies called Gemini bodies (gems). The complex functions in spliceosomal snRNP assembly in the cytoplasm, and regenerates spliceosomes required for pre-mRNA splicing in the nucleus. The

encoded protein directly interacts with a DEAD box protein and several spliceosome core proteins. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.

GEMIN4 Antibody (N-term) - References

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