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GEMIN8 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP17974b

Specification

GEMIN8 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9NWZ8

GEMIN8 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 54960

Other Names
Gem-associated protein 8, Gemin-8, Protein FAM51A1, GEMIN8, FAM51A1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GEMIN8 Antibody (C-term) Blocking Peptide - Protein Information

Name GEMIN8

Synonyms FAM51A1

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

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GEMIN8 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

GEMIN8 Antibody (C-term) Blocking Peptide - Images

GEMIN8 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene is part of the SMNcomplex, which is necessary for spliceosomal snRNP assembly in thecytoplasm and pre-mRNA splicing in the nucleus. The encoded proteinbinds to both SMN1 and the GEMIN6/GEMIN7 heterodimer, mediatingtheir interaction. This protein is found in nuclear Gemini of Cajalbodies (gems) and in the cytoplasm. Three transcript variantsencoding the same protein have been found for this gene. [providedby RefSeq].

GEMIN8 Antibody (C-term) Blocking Peptide - References

Carissimi, C., et al. J. Biol. Chem. 281(48):37009-37016(2006)Carissimi, C., et al. J. Biol. Chem. 281(12):8126-8134(2006)