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STRAP Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP2933c

Specification

STRAP Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9Y3F4

STRAP Antibody (Center) Blocking Peptide - Additional Information

Gene ID 11171

Other Names
Serine-threonine kinase receptor-associated protein, MAP activator with WD repeats, UNR-interacting protein, WD-40 repeat protein PT-WD, STRAP, MAWD, UNRIP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2933c was selected from the Center region of human STRAP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

STRAP Antibody (Center) Blocking Peptide - Protein Information

Name STRAP

Synonyms MAWD, UNRIP

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. STRAP plays a role in the cellular distribution of the SMN complex. Negatively regulates TGF-beta signaling but positively regulates the PDPK1 kinase activity by enhancing its autophosphorylation and by significantly reducing the association of PDPK1 with 14-3-3 protein.

Cellular Location
Cytoplasm. Nucleus. Note=Localized predominantly in the cytoplasm but also found in the nucleus

STRAP Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

STRAP Antibody (Center) Blocking Peptide - Images

STRAP Antibody (Center) Blocking Peptide - Background

The SMN complex plays an essential role in spliceosomal snRNP assembly in the cytoplasm and is required for pre-mRNA splicing in the nucleus. STRAP may play a role in the cellular distribution of the SMN complex.

STRAP Antibody (Center) Blocking Peptide - References

Adams,C.J., et.al., EMBO Rep. 9 (12), 1222-1229 (2008)