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STRAP Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2933b

Specification

STRAP Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9Y3F4
Other Accession	Q5XIG8, Q9Z1Z2, Q5ZL33, Q5E959
Reactivity	**Human**
Predicted	**Bovine, Chicken, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38438**
Antigen Region	**242-269**

STRAP Antibody (C-term) - 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
This STRAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 242-269 amino acids from the C-terminal region of human STRAP.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
STRAP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

STRAP Antibody (C-term) - 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.

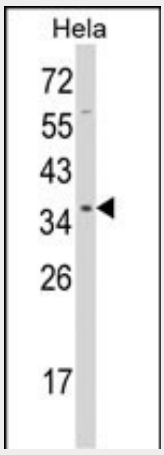
Cellular Location
Cytoplasm. Nucleus. Note=Localized predominantly in the cytoplasm but also found in the nucleus

STRAP Antibody (C-term) - Protocols

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

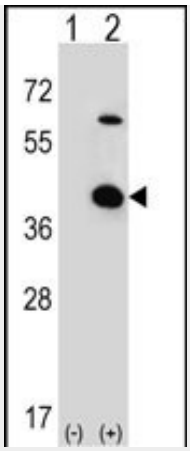
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STRAP Antibody (C-term) - Images

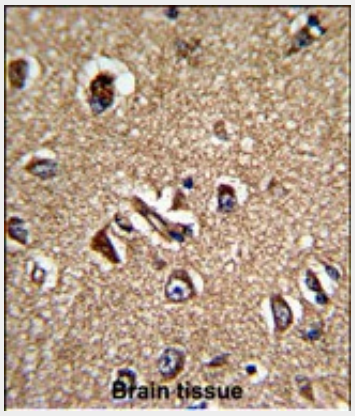


Western blot analysis of STRAP Antibody (C-term) (Cat. #AP2933b) in Hela cell line lysates (35ug/lane). STRAP (arrow) was detected using the purified Pab.

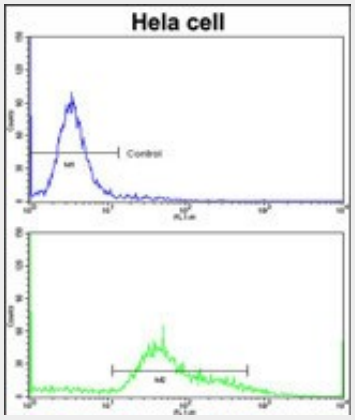
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Western blot analysis of STRAP (arrow) using rabbit polyclonal STRAP Antibody (C-term) (Cat. #AP2933b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the STRAP gene.



Formalin-fixed and paraffin-embedded human brain tissue reacted with STRAP Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using STRAP Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

STRAP Antibody (C-term) - 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 (C-term) - References

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