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STRAP Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2933b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y3F4
Other Accession	Q5XIG8, Q9Z1Z2, Q5ZL33, Q5E959
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20860
Calculated MW	38438
Antigen Region	242-269

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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

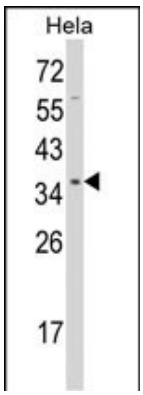
Background

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.

References

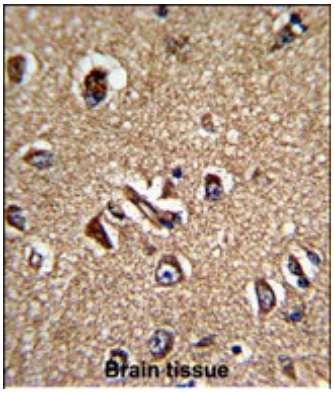
Adams,C.J., et.al., EMBO Rep. 9 (12), 1222-1229 (2008)

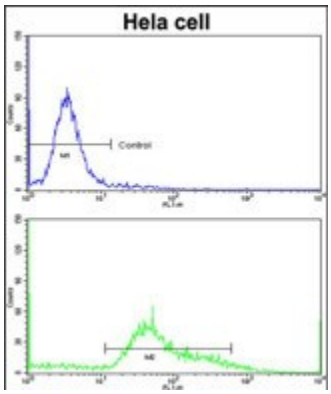
Images



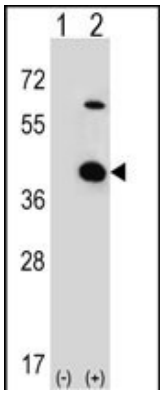
Western blot analysis of STRAP Antibody (C-term) (Cat. #AP2933b) in Hela cell line lysates (35ug/lane). STRAP (arrow) was detected using the purified Pab.

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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.