



GEMIN5 Mouse mAb

Catalog No	YP-mAb-18889
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	GEMIN5
Immunogen	Synthesized peptide derived from human GEMIN5
Specificity	This antibody detects endogenous levels of GEMIN5 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NEDCAM;GEMIN-5;GEMIN5;Gem-associated protein 5 (Gemin5)
Observed Band	180kDa
Calculated Molecular Weight	169kDa
Cell Pathway	Nucleus, nucl
Tissue Specificity	
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 SNRNPB, 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 ultimately triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRNPB to complete



assembly of the core snRNP. Within the SMN complex, GEMIN5 recognizes and delivers the small nuclear RNAs (snRNAs) to the SMN complex. Binds to the 7-methylguanosine cap of RNA molecules. Binds to the 3'-UTR of SMN1 mRNA and regulates its translation; does not affect mRNA stability. May play a role in the regulation of protein synthesis via its interaction with ribosomes.

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images