



Rabbit Anti-Gemin 3 antibody

SL11563R

Product Name:	Gemin 3
Chinese Name:	脊髓性肌萎缩症蛋白SMA抗体
Alias:	Gemin3; Component of gems 3; DDX 20; DDX20; DDX20_HUMAN; DEAD (Asp Glu Ala Asp) box polypeptide 20; DEAD (Asp-Glu-Ala-Asp) box polypeptide 20; DEAD box protein 20; DEAD box protein DP 103; DEAD box protein DP103; DEAD-box protein DP103; DEAD/H (Asp Glu Ala Asp/His) box polypeptide 20 103kD; DEAD/H (Asp Glu Ala Asp/His) box polypeptide 20; DEAD/H BOX 20; DKFZP434H052; DP 103; DP103; Gemin-3; Gemin3; Probable ATP dependent RNA helicase DDX20; Probable ATP-dependent RNA helicase DDX20; SMN interacting protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	92kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Gemin 3:101-200/824
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which has an ATPase activity and is a component of the survival of motor neurons (SMN) complex. This protein interacts directly with SMN, the spinal muscular atrophy gene product, and may play a catalytic role in the function of the SMN complex on RNPs. [provided by RefSeq, Jul 2008].

Function:

The SMN complex plays an essential role in spliceosomal snRNP assembly in the cytoplasm and is required for pre-mRNA splicing in the nucleus. It may also play a role in the metabolism of snoRNPs.

Subunit:

Part of the core SMN complex that contains SMN1, GEMIN2/SIP1, DDX20/GEMIN3, GEMIN4, GEMIN5, GEMIN6, GEMIN7, GEMIN8 and STRAP/UNRIP. Interacts directly with SMN1 and with several spliceosomal snRNP core Sm proteins, including SNUPN, SNRPB, SNRPD2 and SNRPD3. Interacts with PPP4R2. Interacts with EBV EBNA2 and EBNA3C. Interacts with FOXL2. [SUBCELLULAR LOCATION] Cytoplasm. Nucleus, gem. Note=Localized in subnuclear structures next to coiled bodies, called Gemini of Cajal bodies (Gems).

Subcellular Location:

Cytoplasm. Nucleus

Tissue Specificity:

Ubiquitous.

Similarity:

Belongs to the DEAD box helicase family. DDX20 subfamily.

Contains 1 helicase ATP-binding domain.

Contains 1 helicase C-terminal domain.

SWISS:

Q9UHI6

Gene ID:

11218

Database links:

[Entrez Gene: 11218](#) Human

Product Detail:

[Entrez Gene: 53975](#) Mouse

[Omim: 606168](#) Human

[SwissProt: Q9UHI6](#) Human

[SwissProt: Q9JJY4](#) Mouse

[Unigene: 591405](#) Human

[Unigene: 272826](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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