



Gemin3 Polyclonal Antibody

Catalog No	YP-Ab-12729
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	DDX20
Immunogen	The antiserum was produced against synthesized peptide derived from human DDX20. AA range:273-322
Specificity	Gemin3 Polyclonal Antibody detects endogenous levels of Gemin3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DP103;GEMIN3;DDX20;Probable ATP-dependent RNA helicase DDX20; Component of gems 3;DEAD box protein 20;DEAD box protein DP 103;Gemin-3
Observed Band	90kD
Calculated Molecular Weight	90kD
Cell Pathway	Cytoplasm . Nucleus, gem . Localized in subnuclear structures next to coiled bodies, called Gemini of Cajal bodies (Gems). .
Tissue Specificity	Ubiquitous.
Function	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.,similarity:Belongs to the DEAD box helicase family.,similarity:Belongs to the DEAD box helicase family. DDX20 subfamily.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,subcellular location:Localized in subnuclear structures next to coiled bodies, called Gemini of Cajal bodies (Gems).,subunit:Part of the core SMN complex that contains SMN1, SIP1/ GEMIN2, 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.,tissue specificity:Ubiquitous.

Background

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],

matters needing attention

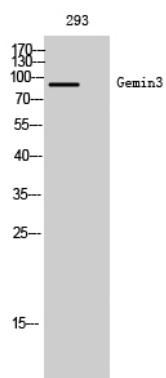
Avoid repeated freezing and thawing!

Usage suggestions

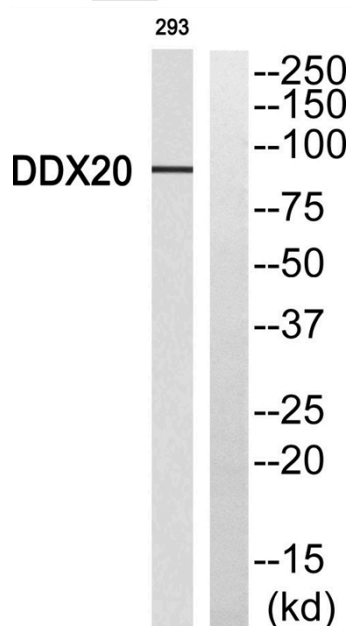
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



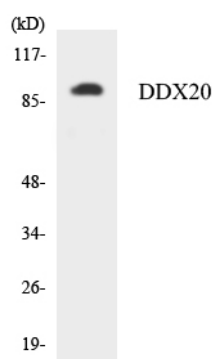
Products Images



Western Blot analysis of 293 cells using Gemin3 Polyclonal Antibody



Western blot analysis of DDX20 Antibody. The lane on the right is blocked with the DDX20 peptide.



Western blot analysis of the lysates from K562 cells using DDX20 antibody.