

## Gemin3 Polyclonal Antibody

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT1893  |
| <b>Reactivity :</b>          | Human;Mouse   |
| <b>Applications :</b>        | WB;ELISA  |
| <b>Target :</b>              | Gemin3  |
| <b>Gene Name :</b>           | DDX20   |
| <b>Protein Name :</b>        | Probable ATP-dependent RNA helicase DDX20   |
| <b>Human Gene Id :</b>       | 11218   |
| <b>Human Swiss Prot No :</b> | Q9UHI6  |
| <b>Mouse Gene Id :</b>       | 53975   |
| <b>Mouse Swiss Prot No :</b> | Q9JJY4  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human DDX20. AA range:273-322                     |
| <b>Specificity :</b>         | Gemin3 Polyclonal Antibody detects endogenous levels of Gemin3 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.  |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)  |

**Observed Band :** 90kD**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],

**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.

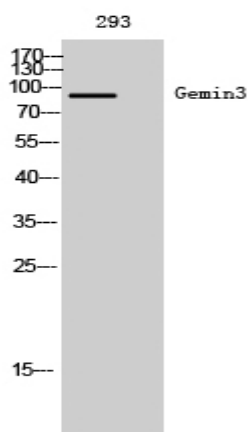
**Subcellular Location :**

Cytoplasm . Nucleus, gem . Localized in subnuclear structures next to coiled bodies, called Gemini of Cajal bodies (Gems) . .

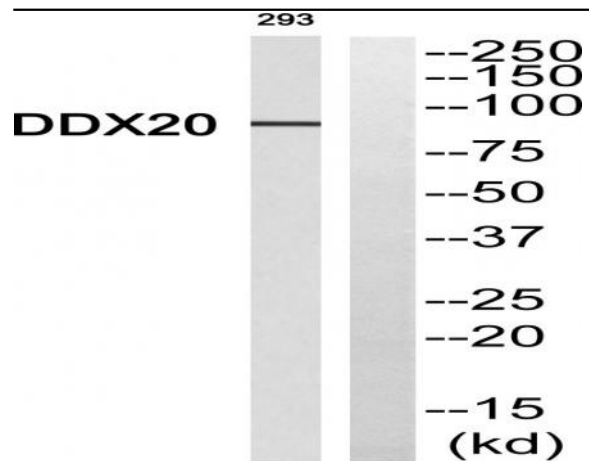
**Expression :**

Ubiquitous.

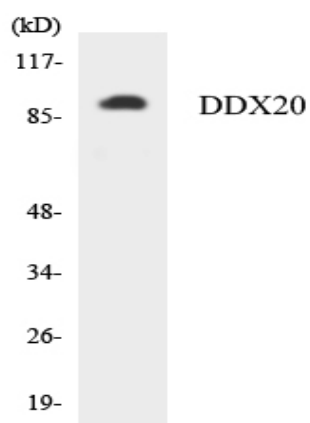
## Products Images



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.