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# DDX3X/DDX3Y Rabbit mAb

**Catalog No.: A23794** Recombinant

## Basic Information

**Observed MW**
75 kDa

**Calculated MW**
73 kDa/71 kDa/32 kDa

**Category**
Primary antibody

**Applications**
WB,IHC-P,IF/ICC,IP,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC58999

## Background

The protein encoded by this gene is a member of the large DEAD-box protein family, that is defined by the presence of the conserved Asp-Glu-Ala-Asp (DEAD) motif, and has ATP-dependent RNA helicase activity. This protein has been reported to display a high level of RNA-independent ATPase activity, and unlike most DEAD-box helicases, the ATPase activity is thought to be stimulated by both RNA and DNA. This protein has multiple conserved domains and is thought to play roles in both the nucleus and cytoplasm. Nuclear roles include transcriptional regulation, mRNP assembly, pre-mRNA splicing, and mRNA export. In the cytoplasm, this protein is thought to be involved in translation, cellular signaling, and viral replication. Misregulation of this gene has been implicated in tumorigenesis. This gene has a paralog located in the nonrecombining region of the Y chromosome. Pseudogenes sharing similarity to both this gene and the DDX3Y paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants.The protein encoded by this gene is a member of the DEAD-box RNA helicase family, characterized by nine conserved motifs, included the conserved Asp-Glu-Ala-Asp (DEAD) motif. These motifs are thought to be involved in ATP binding, hydrolysis, RNA binding, and in the formation of intramolecular interactions. This protein shares high similarity to DDX3X, on the X chromosome, but a deletion of this gene is not complemented by DDX3X. Mutations in this gene result in male infertility, a reduction in germ cell numbers, and can result in Sertoli-cell only sydrome. Pseudogenes sharing similarity to both this gene and the DDX3X paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:50000 - 1:200000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **IP** | 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
1654/8653

**Swiss Prot**
O00571/O15523

**Immunogen**
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

**Synonyms**
DBX; DDX3; HLP2; DDX14; CAP-Rf; MRX102; MRXSSB; DBY; DDX3X/DDX3Y

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact


400-999-6126

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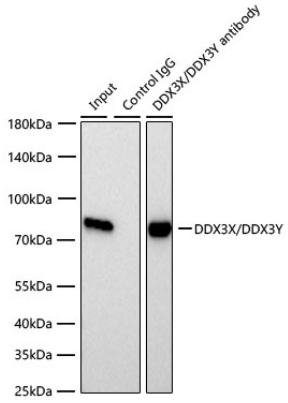
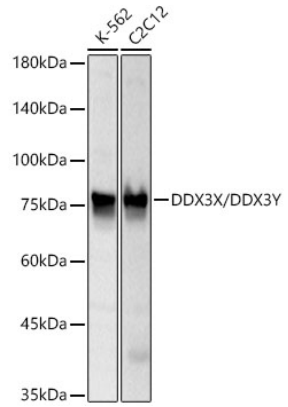
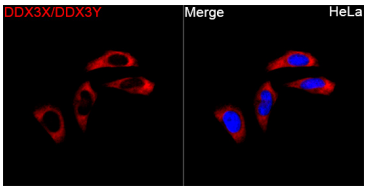
## Validation Data



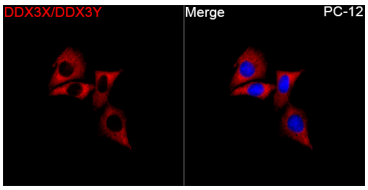

Immunoprecipitation of DDX3X/DDX3Y from 300 µg extracts of K-562 cells was performed using 1 µg of DDX3X/DDX3Y Rabbit mAb (A23794). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer.The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using DDX3X/DDX3Y Rabbit mAb (A23794) at a dilution of 1:100000.



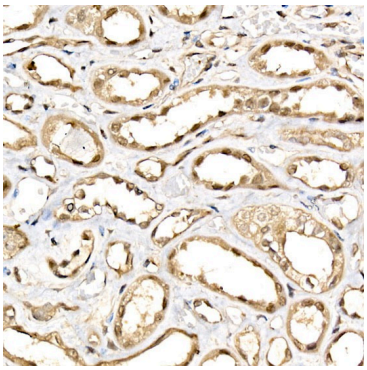

Western blot analysis of various lysates, using DDX3X/DDX3Y Rabbit mAb (A23794) at 1:100000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.




Immunofluorescence analysis of HeLa cells using DDX3X/DDX3Y Rabbit mAb (A23794) at a dilution of 1:100 (40x lens). Secondary antibody:Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

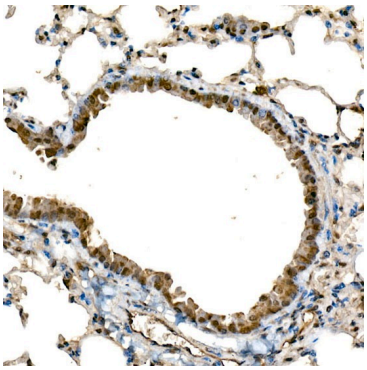



Immunofluorescence analysis of PC-12 cells using DDX3X/DDX3Y Rabbit mAb (A23794) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

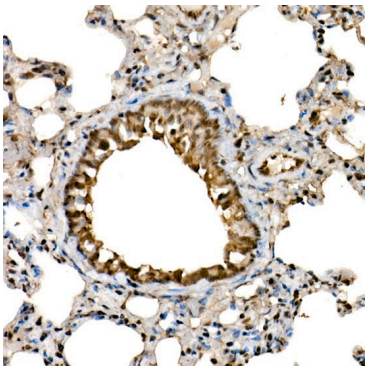


Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using DDX3X/DDX3Y Rabbit mAb (A23794) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using DDX3X/DDX3Y Rabbit mAb (A23794) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using DDX3X/DDX3Y Rabbit mAb (A23794) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.