



Rabbit Anti-phospho-DDX5 (Tyr593) antibody

SL8005R

Product Name:	phospho-DDX5 (Tyr593)
Chinese Name:	磷酸化三磷酸腺苷依赖解旋酶ddx5抗体
Alias:	DDX5 (phospho Y593); DDX5 (phospho Tyr593); p-DDX5 (Y593); p-DDX5 (Tyr593); ATP dependent RNA helicase DDX5; DDX 5; Ddx5; DDX5_HUMAN; DEAD (Asp Glu Ala Asp) box helicase 5; DEAD (Asp Glu Ala Asp) box polypeptide 5; DEAD box 5; DEAD box protein 5; DEAD/H (Asp Glu Ala Asp/His) box polypeptide 5 (RNA helicase, 68kD); DEAD/H (Asp Glu Ala Asp/His) box polypeptide 5; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase 68kDa); DEAD/H box-5 (RNA helicase 68kD); DKFZp686J01190; G17P1; HELR; HLR 1; HLR1; HUMP68; P68; P68; p68 RNA helicase; Probable ATP dependent RNA helicase DDX5; Probable ATP-dependent RNA helicase DDX5; RNA helicase 68kD; RNA helicase p68; RNA-dependent ATPase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
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:	69kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human DDX5 around the phosphorylation site of Tyr593:QA(p-Y)AY
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
Product Detail:	<p>p68 RNA helicase is a nuclear protein that exhibits RNA-dependent ATPase activity. Phosphorylation by protein kinase C inhibits p68 RNA helicase activity. p68 RNA helicase appears to play a role in organ differentiation during development. Furthermore, p68 RNA helicase is expressed in early neural development and in various mesodermal tissues in a number of different chordate embryos. At the cellular level, the expression levels of p68 RNA helicase increases in serum-induced quiescent cell lines. p68 RNA helicase may function as a coactivator for estrogen receptor alpha. Additionally, p68 RNA helicase associates with transcriptional coactivators CBP and p300. p68 RNA helicase localizes to the nucleus under normal conditions. During late telophase, p68 RNA helicase and fibrillarin colocalize to nascent nucleoli. p68 RNA helicase may function as a heterodimer with p72 RNA helicase.</p> <p>Function: RNA-dependent ATPase activity. The rate of ATP hydrolysis is highly stimulated by single-stranded RNA. May be involved in pre-mRNA splicing.</p> <p>Subunit: Interacts with BRDT (By similarity). Identified in the spliceosome C complex. Interacts with RBM4; the interaction occurs in a RNA-independent manner. Interacts with EIF2C1 and EIF2C2. Interacts with ESR1; the interaction is enhanced by phosphorylation of ESR1 AF-1 domain. Interacts with AR, NCOA1, NCOA2, NCOA3, EP300, CREBBP, POLR2A, TP53, RUNX2 and HDAC1. Self-associates. Interacts with DDX17. [INTERACTION] Q12873:CHD3; NbExp=4; IntAct=EBI-351962, EBI-523590; P45481:Crebbp (xeno); NbExp=3; IntAct=EBI-351962, EBI-296306; Q09472:EP300; NbExp=4; IntAct=EBI-351962, EBI-447295; P03372:ESR1; NbExp=8; IntAct=EBI-351962, EBI-78473; P22087:FBL; NbExp=6; IntAct=EBI-351962, EBI-358318; Q13547:HDAC1; NbExp=4; IntAct=EBI-351962, EBI-301834; O95983:MBD3; NbExp=4; IntAct=EBI-351962, EBI-1783068; P10085:Myod1 (xeno); NbExp=3; IntAct=EBI-351962, EBI-4405734; P24928:POLR2A; NbExp=3; IntAct=EBI-351962, EBI-295301; Q08775-3:Runx2 (xeno); NbExp=2; IntAct=EBI-351962, EBI-6119991; P04637:TP53; NbExp=3; IntAct=EBI-351962, EBI-366083; P04637-1:TP53; NbExp=2; IntAct=EBI-351962, EBI-3895849; P04637-7:TP53; NbExp=2; IntAct=EBI-351962, EBI-3895873.</p> <p>Subcellular Location: Nucleus.</p> <p>Post-translational modifications: Arg-502 is dimethylated, probably to asymmetric dimethylarginine. Sumoylated; sumoylation, promoted by PIAS1, promotes interaction with HDAC1 and transcriptional repression activity. Sumoylation also significantly increases stability, and reduces polyubiquitination.</p>

Polyubiquitinated, leading to proteasomal degradation.

Similarity:

Belongs to the DEAD box helicase family. DDX5/DBP2 subfamily.

Contains 1 helicase ATP-binding domain.

Contains 1 helicase C-terminal domain.

SWISS:

P17844

Gene ID:

1655

Database links:

[Entrez Gene: 1655](#)Human

[Entrez Gene: 13207](#)Mouse

[Entrez Gene: 287765](#)Rat

[Omim: 180630](#)Human

[SwissProt: P17844](#)Human

[SwissProt: Q61656](#)Mouse

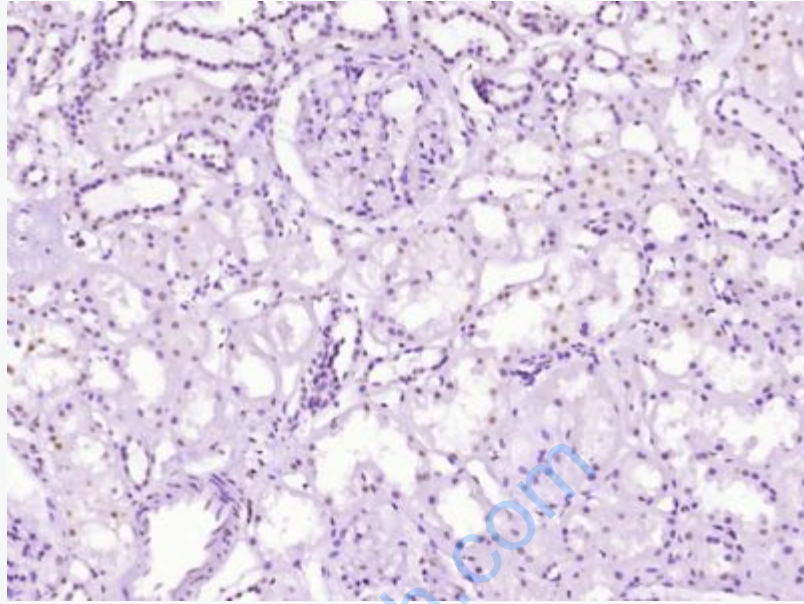
[Unigene: 279806](#)Human

[Unigene: 220038](#)Mouse

[Unigene: 162208](#)Rat

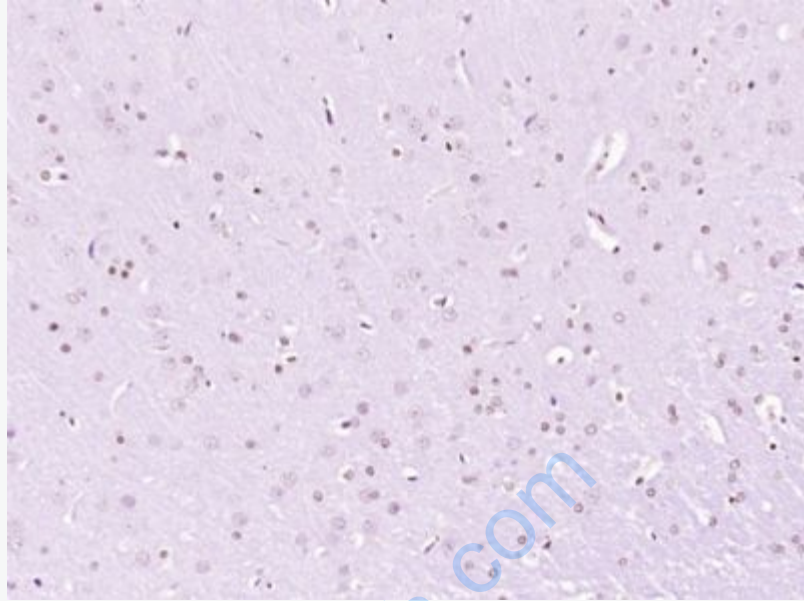
Important Note:

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



Picture:

Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-DDX5 (Tyr593)) Polyclonal Antibody, Unconjugated (SL8005R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-DDX5 (Tyr593)) Polyclonal Antibody, Unconjugated (SL8005R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.