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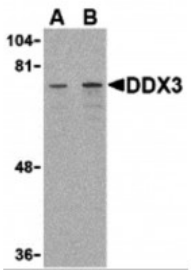
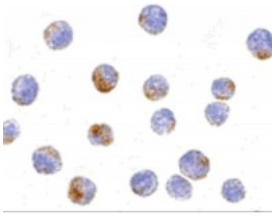
DDX3 Antibody

CATALOG NUMBER: 3759



Western blot analysis of DDX3 in HepG2 cell lysate with DDX3 antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of DDX3 in HepG2 cells with DDX3 antibody at 10 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Bovine: (80%)
TESTED APPLICATIONS:	ELISA, ICC, WB
APPLICATIONS:	DDX3 antibody can be used for the detection of DDX3 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1211 - HepG2 Cell Lysate
SPECIFICITY:	DDX3 antibody will detect both DDX3 and DBY.
IMMUNOGEN:	DDX3 antibody was raised against a 16 amino acid synthetic peptide from near the center of human DDX3. The immunogen is located within amino acids 460 - 510 of DDX3.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	DDX3 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	DDX3 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	DDX3 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	DDX3 Antibody: DBX, DDX3, HLP2, DDX14, DBX, ATP-dependent RNA helicase DDX3X, DEAD box protein 3, X-chromosomal
ACCESSION NO.:	AAC34298
PROTEIN GI NO.:	3523150
OFFICIAL SYMBOL:	DDX3X
GENE ID:	1654

Background

BACKGROUND:	DDX3 Antibody: DDX3 contains all of the motifs of the DEAD-box family of RNA helicases, including the Asp-Glu-Ala-Asp sequence that gives the protein family its name and distinguishes it from other RNA helicases. DDX3 is localized to the X chromosome and has a highly conserved functional homolog (DBY) on the Y chromosome. DDX3 is thought to be involved in RNA splicing, RNA transport, and translation initiation. It has also been shown to be involved in cell growth control and is deregulated in hepatitis virus-associated hepatocellular carcinoma. Recent experiments suppressing DDX3 expression blocked HIV-1 RNA export from the nucleus, suggesting that DDX3 functions as a shuttling protein that transports the HIV-1 protein Rev and its cofactor CRM1 from the nucleus to the cytoplasm.
REFERENCES:	1) Linder P, Lasko PF, Ashburner M, et al. Birth of the D-E-A-D box. Nature 1989; 337:121-2.
	2) Park SH, Lee SG, Kim Y, et al. Assignment of a human putative RNA helicase gene, DDX3, to human X chromosome bands p11.3-->p11.23. Cytogenet. Cell Genet. 1998; 81:178-9.
	3) Lahn BT and Page DC. Functional coherence of the human Y chromosome. Science 1997; 278:675-80.
	4) Abdelhaleem M. RNA helicases: regulators of differentiation. Clin. Biochem. 2005; 38:499-503.

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December 12, 2016