Datasheet for 600-401-AU3

DDX3 Antibody

Overview

Description:	Anti-DDX3 (RABBIT) Antibody - 600-401-AU3
Item No.:	600-401-AU3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	DDX3 Antibody, DBX, DDX3, HLP2, DDX14, DBX, ATP-dependent RNA helicase DDX3X, DEAD box protein 3, X-chromosomal
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DDX3X
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DDX3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the N-terminus of human DDX3.
Purity/Specificity:	Anti-DDX3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. DDX3 antibody will detect both DDX3 and DBY.
Relevant Links:	• UniProtKB - O00571 • GeneID - 1654 • NCBI - AAC34298

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DDX3 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 73 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
WB:	0.5-1 µg/mL

Formulation

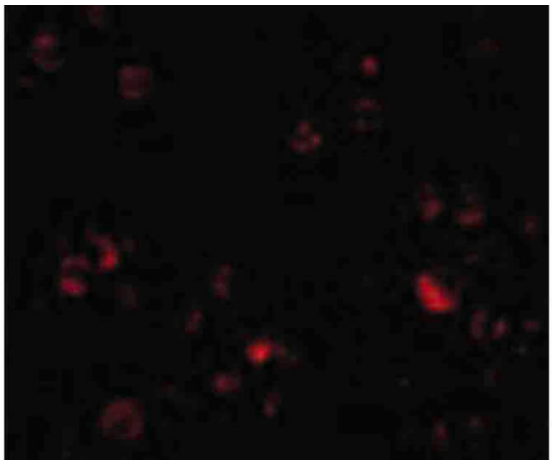
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

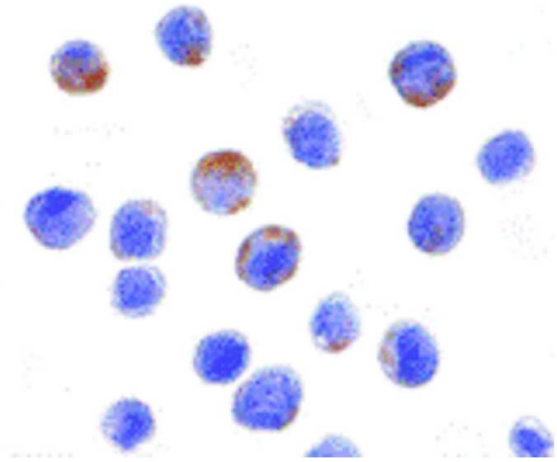
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

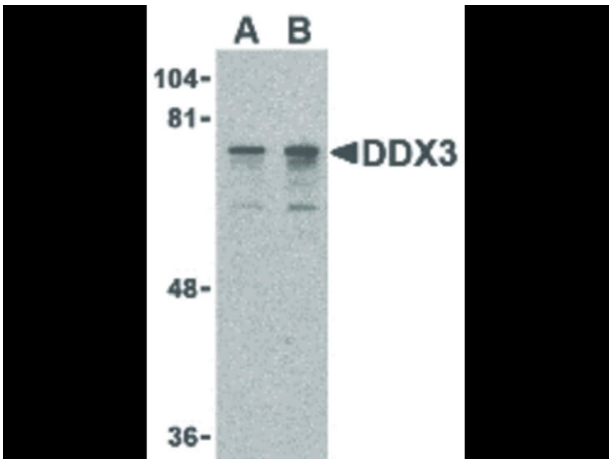
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of DDX3 antibody. Cell Type: HepG2 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: DDX3 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DDX3 is located in the cytoplasm, cell membrane, mitochondrion, mitochondrion outer membrane, and the nucleus. Staining: DDX3 as red fluorescent signal.



Immunohistochemistry
Immunocytochemistry of DDX3 antibody. Cell Type: HepG2 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DDX3 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DDX3 is located in the cytoplasm, cell membrane, mitochondrion, mitochondrion outer membrane, and the nucleus. Staining: DDX3 is stained with toluidine blue.



Western Blot

Western Blot of DDX3 antibody in HepG2 cell lysate. Lane A: DDX3 antibody at 0.5 µg/mL. Lane B: DDX3 antibody at 1 µg/mL. Load: 35 µg per lane. Primary antibody: DDX3 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 73 kDa, 78 kDa for DDX3. Other band(s): DDX3 splice variants and isoforms.

Disclaimer

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