# ANTIBODIES ONLINE

# Datasheet for ABIN7144985 anti-DDX3X antibody (AA 1-220)

2 Images



Overview

Quantity:	100 µL
Target:	DDX3X
Binding Specificity:	AA 1-220
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDX3X antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

## Product Details

Immunogen:	Recombinant Human ATP-dependent RNA helicase DDX3X protein (1-220AA)
lsotype:	lgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

## Target Details

Target:	DDX3X
Alternative Name:	DDX3X (DDX3X Products)
Background:	Background: Multifunctional ATP-dependent RNA helicase. The ATPase activity can be
	stimulated by various ribo- and deoxynucleic acids indicative for a relaxed substrate specificity.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN7144985 | 07/25/2024 | Copyright antibodies-online. All rights reserved. In vitro can unwind partially double-stranded DNA with a preference for 5\\\'-single-stranded DNA overhangs. Is involved in several steps of gene expression, such as transcription, mRNA maturation, mRNA export and translation. However, the exact mechanisms are not known and some functions may be specific for a subset of mRNAs. Involved in transcriptional regulation. Can enhance transcription from the CDKN1A/WAF1 promoter in a SP1-dependent manner. Found associated with the E-cadherin promoter and can down-regulate transcription from the promoter. Involved in regulation of translation initiation. Proposed to be involved in positive regulation of translation such as of cyclin E1/CCNE1 mRNA and specifically of mRNAs containing complex secondary structures in their 5\\\'UTRs, these functions seem to require RNA helicase activity. Specifically promotes translation of a subset of viral and cellular mRNAs carrying a 5\\\'proximal stem-loop structure in their 5\\\'UTRs and cooperates with the eIF4F complex. Proposed to act prior to 43S ribosomal scanning and to locally destabilize these RNA structures to allow recognition of the mRNA cap or loading onto the 40S subunit. After association with 40S ribosomal subunits seems to be involved in the functional assembly of 80S ribosomes, the function seems to cover translation of mRNAs with structured and nonstructured 5\\\'UTRs and is independent of RNA helicase activity. Also proposed to inhibit capdependent translation by competetive interaction with EIF4E which can block the EIF4E:EIF4G complex formation. Proposed to be involved in stress response and stress granule assembly, the function is independent of RNA helicase activity and seems to involve association with EIF4E. May be involved in nuclear export of specific mRNAs but not in bulk mRNA export via interactions with XPO1 and NXF1. Also associates with polyadenylated mRNAs independently of NXF1. Associates with spliced mRNAs in an exon junction complex (EJC)-dependent manner and seems not to be directly involved in splicing. May be involved in nuclear mRNA export by association with DDX5 and regulating its nuclear location. Involved in innate immune signaling promoting the production of type I interferon (IFN-alpha and IFN-beta), proposed to act as viral RNA sensor, signaling intermediate and transcriptional coactivator. Involved in TBK1 and IKBKE-dependent IRF3 activation leading to IFNB induction, plays a role of scaffolding adapter that links IKBKE and IRF3 and coordinates their activation. Also found associated with IFNB promoters, the function is independent of IRF3. Can bind to viral RNAs and via association with MAVS/IPS1 and DDX58/RIG-I is thought to induce signaling in early stages of infection. Involved in regulation of apoptosis. May be required for activation of the intrinsic but inhibit activation of the extrinsic apoptotic pathway. Acts as an antiapoptotic protein through association with GSK3A/B and BIRC2 in an apoptosis antagonizing signaling complex, activation of death receptors promotes caspase-dependent cleavage of BIRC2 and DDX3X and relieves the inhibition. May be involved in mitotic chromosome segregation. Appears to be a prime target for viral manipulations. Hepatitis B virus (HBV) polymerase and possibly vaccinia

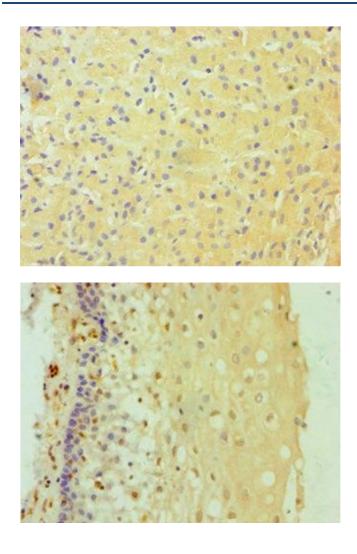
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN7144985 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

	virus (VACV) protein K7 inhibit IFNB induction probably by dissociating DDX3X from TBK1 or
	IKBKE. Is involved in hepatitis C virus (HCV) replication, the function may involve the
	association with HCV core protein. HCV core protein inhibits the IPS1-dependent function in
	viral RNA sensing and may switch the function from a INFB inducing to a HCV replication
	mode. Involved in HIV-1 replication. Acts as a cofactor for XPO1-mediated nuclear export of
	incompletely spliced HIV-1 Rev RNAs.
	Aliases: ATP dependent RNA helicase DDX3X antibody, ATP-dependent RNA helicase DDX3X
	antibody, CAP Rf antibody, DBX antibody, DDX14 antibody, DDX3X antibody, DDX3X_HUMAN
	antibody, DEAD (Asp Glu Ala Asp) box polypeptide 3 X linked antibody, DEAD (Asp-Glu-Ala-Asp)
	box helicase 3, X-linked antibody, DEAD box antibody, DEAD box protein 3 antibody, DEAD box
	protein 3 X-chromosomal antibody, DEAD box X isoform antibody, DEAD box, X isoform
	antibody, DEAD/H (Asp Glu Ala Asp/His) box polypeptide 3 antibody, DEAD/H box 3 antibody,
	DEAD/H box 3, X-linked antibody, Helicase like protein 2 antibody, Helicase-like protein 2
	antibody, HLP2 antibody, X isoform antibody, X-chromosomal antibody
UniProt:	000571
Pathways:	Ribonucleoprotein Complex Subunit Organization, Positive Regulation of Endopeptidase Activity
	, Negative Regulation of intrinsic apoptotic Signaling, Ribosome Assembly

## Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN7144985 | 07/25/2024 | Copyright antibodies-online. All rights reserved.



#### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human liver cancer using ABIN7144985 at dilution of 1:100

#### Immunohistochemistry

**Image 2.** Immunohistochemistry of paraffin-embedded human cervical cancer using ABIN7144985 at dilution of 1:100

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN7144985 | 07/25/2024 | Copyright antibodies-online. All rights reserved.