

DATASHEET

DDX3X Mouse Monoclonal Antibody(C3393)

CAT. NO. AMA03005

KEY FEATURES

Target	DDX3X	Source / Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey	Clonality	Monoclonal
Applications	WB, IF/ICC, IP, ChIP	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.	Storage	at-20°C

BACKGROUND

Multifunctional ATP-dependent RNA helicase . The ATPase activity can be stimulated by various ribo-and deoxynucleic acids indicative for a relaxed substrate specificity . In vitro can unwind partially double-stranded DNA with a preference for 5'-single-stranded DNA overhangs . Binds RNA G-quadruplex (rG4s) structures, including those located in the 5'-UTR of NRAS mRNA . Involved in many cellular processes, which do not necessarily require its ATPase/helicase catalytic activities (Probable). Involved in transcription regulation . Positively regulates CDKN1A/WAF1/CIP1 transcription in an SP1-dependent manner, hence inhibits cell growth. This function requires its ATPase, but not helicase activity . CDKN1A up-regulation may be cell-type specific .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:100
IP	1:10 - 1:50
ChIP	1:10 - 1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to DDX3X
Specificity	Recognizes endogenous levels of DDX3X protein.
Antibody Type	Primary antibody
Immunogen	Purified recombinant human DDX3 protein fragments expressed in E.coli.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 73 kD; Observed: 73 kD
Form/Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Alternative Names	DBX; DDX3; ATP-dependent RNA helicase DDX3X; DEAD box protein 3 X-chromosomal; DEAD box X isoform; Helicase-like protein 2; HLP2
Gene Symbol	DDX3X
Entrez Gene	1654(Human); 13205(Mouse)
SwissProt	O00571(Human); Q62167(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arex.bio or your local distributor.

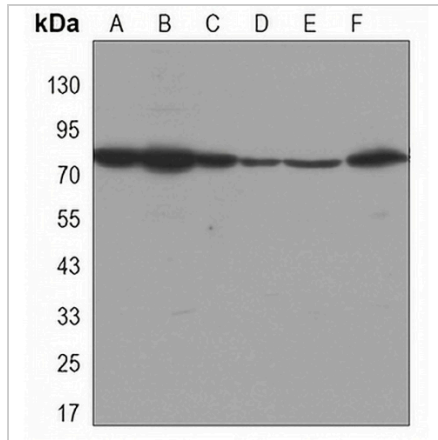
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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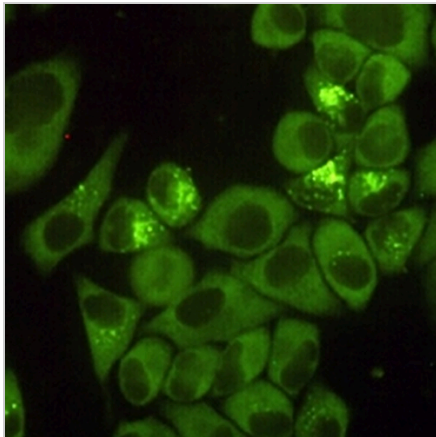
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Western blot analysis of DDX3X expression in HeLa (A), NIH3T3 (B), C6 (C), COS7 (D), K562 (E), Jurkat (F) whole cell lysates. (Predicted band size: 73 kD; Observed band size: 73 kD)



Immunofluorescent analysis of DDX3X staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.