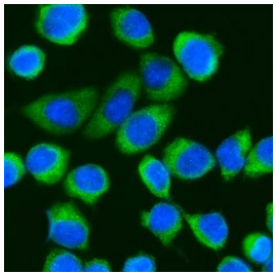
DDX3 Antibody (N-Terminal Region) (R32859)

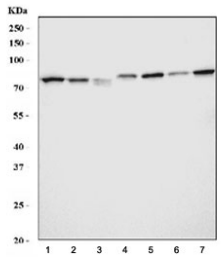
Catalog No.	Formulation	Size
R32859	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

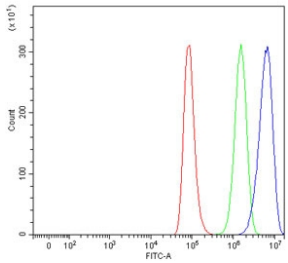
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O00571
Localization	Cell membrane, cytoplasm, nucleus
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This DDX3 antibody is available for research use only.



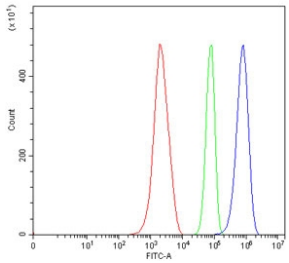
Immunofluorescent staining of FFPE human SiHa cells with DDX3 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



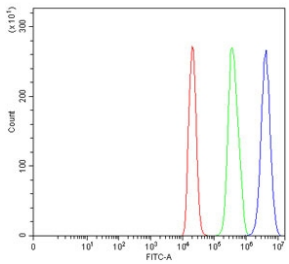
Western blot testing of 1) human HeLa, 2) human HepG2, 3) human HT1080, 4) rat liver and 5) rat C6, 6) mouse liver and 7) mouse NIH 3T3 cell lysate with DDX3 antibody at 0.5ug/ml. Predicted molecular weight ~73 kDa.



Flow cytometry testing of human A549 cells with DDX3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDX3 antibody.



Flow cytometry testing of mouse ANA-1 cells with DDX3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDX3 antibody.



Flow cytometry testing of rat C6 cells with DDX3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDX3 antibody.

Description

ATP-dependent RNA helicase DDX3X is an enzyme that in humans is encoded by the DDX3X gene. The protein encoded by this gene is a member of the large DEAD-box protein family, that is defined by the presence of the conserved Asp-Glu-Ala-Asp (DEAD) motif, and has ATP-dependent RNA helicase activity. This protein has been reported to display a high level of RNA-independent ATPase activity, and unlike most DEAD-box helicases, the ATPase activity is thought to be stimulated by both RNA and DNA. This protein has multiple conserved domains and is thought to play roles in both the nucleus and cytoplasm. Nuclear roles include transcriptional regulation, mRNP assembly, pre-mRNA splicing, and mRNA export. In the cytoplasm, this protein is thought to be involved in translation, cellular signaling, and viral replication. Misregulation of this gene has been implicated in tumorigenesis. This gene has a paralog located in the nonrecombining region of the Y chromosome. Pseudogenes sharing similarity to both this gene and the DDX3Y paralog are found on chromosome 4 and the X chromosome.

Application Notes

Optimal dilution of the DDX3 antibody should be determined by the researcher.

Immunogen

Amino acids 2-28 (SHVAVENALGLDQQFAGLDLNSSDNQS) were used as the immunogen for the DDX3 antibody.

Storage

After reconstitution, the DDX3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.