

For Research Use Only

DDX3 Monoclonal antibody

Catalog Number: 67915-1-Ig **3 Publications**



Basic Information

Catalog Number:

67915-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG29972

GenBank Accession Number:

BC011819

GeneID (NCBI):

1654

UNIPROT ID:

O00571

Full Name:

DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked

Calculated MW:

73 kDa

Observed MW:

71-73 kDa

Purification Method:

Protein A purification

CloneNo.:

1D3A1

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IF

Species Specificity:

human, rat

Cited Species:

human, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LNCaP cells, HepG2 cells, HeLa cells, HEK-293 cells, Jurkat cells, HSC-T6 cells

IHC : human breast cancer tissue,

Background Information

DDX3X, also named DBX, DDX3, and HLP2, belongs to the DEAD-box helicase family and DDX3/DED1 subfamily. It is ATP-dependent RNA helicase. DDX3X acts as a cofactor for XPO1-mediated nuclear export of incompletely spliced HIV-1 Rev RNAs. It is also involved in HIV-1 replication. DDX3X interacts specifically with hepatitis C virus core protein resulting in a change in intracellular location. 73kd is the target band. 60-65kd is some other isoform. This antibody can bind both DDX3X and DDX3Y for the close sequences.

Notable Publications

Author	Pubmed ID	Journal	Application
Fengyu Jiang	39454411	Int Immunopharmacol	WB
Nina Đukić	37703374	Sci Adv	WB
Qingzhu Wang	37580991	CNS Neurosci Ther	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

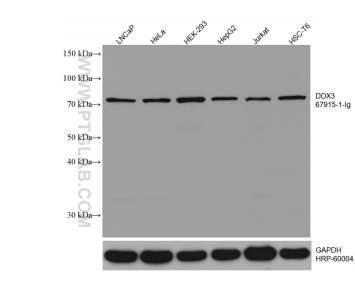
T: 4006900926

E: Proteintech-CN@ptglab.com

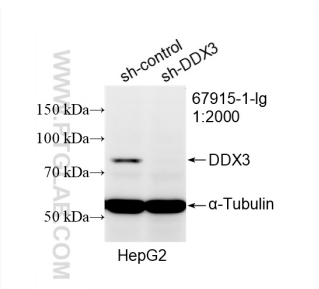
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

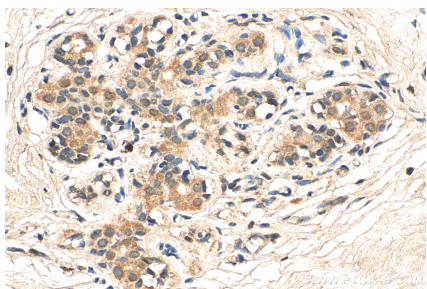
Selected Validation Data



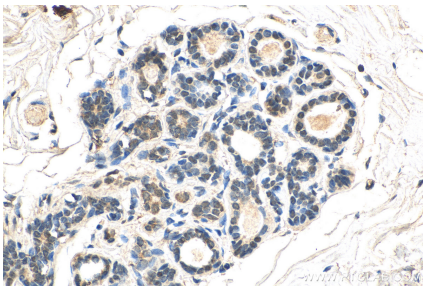
Various lysates were subjected to SDS PAGE followed by western blot with 67915-1-Ig (DDX3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



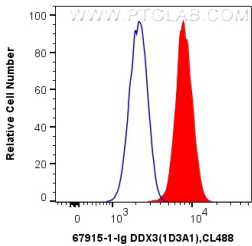
WB result of DDX3 antibody (67915-1-Ig: 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DDX3 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67915-1-Ig (DDX3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67915-1-Ig (DDX3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ HepG2 cells were intracellularly stained with 0.5 ug Anti-Human DDX3 (67915-1-Ig, Clone:1D3A1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).