Anti-DDX3X antibody, rabbit polyclonal

Product code	70-706
Size	100 µg
Storage	-20℃
Concentration	1mg/ml
Buffer	PBS- with 50 % glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum (70-450).
Immunogen	Purified Human DDX3X fused with GST
Isotype	Rabbit IgG
Reactivity	DDX3X of human monkey and rodents. Not tested with other species.
Special notes	Purified from rabbit antiserum (70-450)
Application	1. Western blotting (1/1,000~ 1/5,000) 2. Immunofluorescence staining (1/500) 3. Immunohistochemical staining (1/200)
Background	DDX3X (662aa, 73.2 kDa) is a member of DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD) which are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which interacts specifically with hepatitis C virus core protein resulting a change in intracellular location. This gene has a homolog located in the nonrecombining region of the Y chromosome. The protein sequence is 91% identical between this gene and the Y-linked homolog. Alternative splicing results in multiple transcript variants.
Data Link	UniProtKB O00571 (DDX3X_HUMAN) GeneCards:DDX3X Gene
Related Products	70-450 Anti-DDX3X antibody, rabbit serum

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/

Data Images: 70-706 Anti-DDX3X antibody, rabbit polyclonal

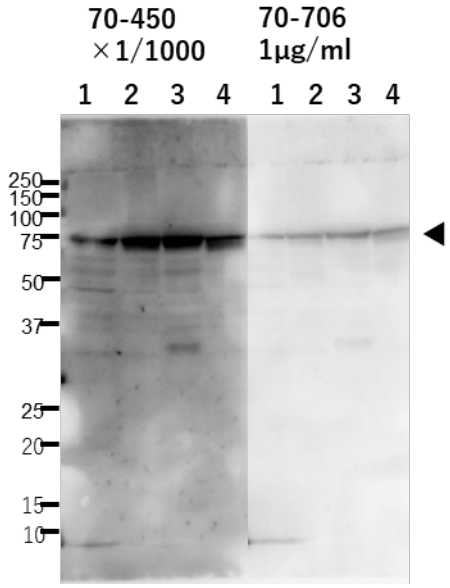


Fig.1 Western blot analysis of endogenous DDX3X

1. HeLa cell extracts 20μg
2. NIH3T3 cell extracts 20μg
3. CHO cell extracts 20μg
4. PC-12 cell extracts 20μg

The primary antibody 70-450 x1/1000 dilutions
70-706 1μg/ml

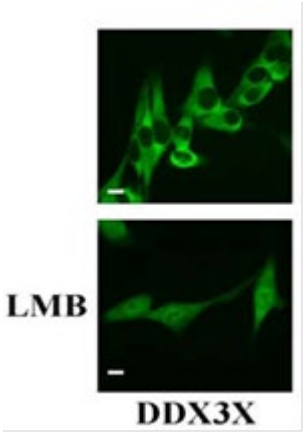


Fig.2 Immunostaing of HeLa cells with anti-DDX3X antibody. Paraformaldehyde-fixed HeLa cells were stained with anti-DDX3X antibody at 1/500 dilution. DDX3X is localized in cytoplasm in the absence of treatment, but once treated with LMB, a nuclear translocation inhibitor, it is localized not only in cytoplasm but also in nuclei.

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/

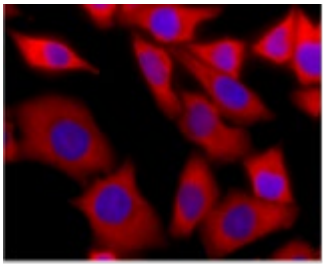


Fig.3 Immunostaining of Hela cells with anti-DDX3X antibody.

Hela cells were stained with anti-DDX3X antibody (red) at 1/500 dilution and as the secondary antibody, Alexa Fluor 568-conjugated goat anti-rabbit antibody at 2 μg/ml. The nuclei were stained with Hoechst (blue).

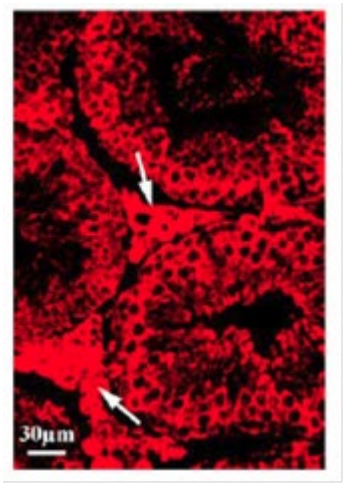


Fig.4　Immunohistochemical staining of DDX3X in mouse testis tissue.

Frozen section was stained with anti-DDX3X antibody at 1/200 dilution and secondarily labeled with Cys-conjugated anti-rabbit IgG. Arrows indicate Leydig cells.

Reference：This product was described and used in the following publications.

1 .Sekiguchi T et al　Human DDX3Y, the Y-encoded isoform of RNA helicase DDX3, rescues a hamster temperature-sensitive ET24 mutant cell line with a DDX3X mutation. *Exp. Cell. Res.* 300：213-222 (2004) PMID: 15383328. IF, IHC-F (hu, ms, ham)

2. Sekiguchi T. et al. Phosphorylation of threonine 204 of DEAD-box RNA helicase DDX3 by cyclin B/cdc2 in vitro. Biochem Biophys Res Commun. 2007 May 11;356(3):668-73. PMID: 17379183　WB (hu, ham)

BioAcademia,Inc. Tel. 81-6-6877-2335　Fax. 81-6-6877-2336 info@bioacademia.co.jp　https://www.bioacademia.co.jp/en/