

## Anti-DDX3X antibody, rabbit serum

# 70-450 100 µl

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.

### Applications

1. Western blot 1/1,000~ 1/5,000
  2. Immunofluorescence staining 1/500
- Other applications have not been tested.

### Specifications

Reactivity: Reacts with DDX3 of human and rodents. Not tested with other species.

Immunogen: Purified full-length human DDX3X fused with GST

Form: Undiluted anti rabbit serum added with 0.05 % sodium azide

Storage: Shipped at 4°C, Upon arrival aliquot and store at -20°C.

**Data Link** UniProtKB/Swiss-Prot [O00571](https://www.uniprot.org/entry/O00571) (DDX3X\_HUMAN)  
GeneCards: [DDX3X Gene](https://www.genecards.org/cgi-bin/cardutils.pl?symbol=DDX3X)

**Reference** : This product was described and used in reference 1.

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](https://pubmed.ncbi.nlm.nih.gov/15383328/)

Fig. 2 Immunostaining of HeLa cells with anti-DDX3X antibody. Paraformaldehyde-fixed HeLa cells were stained with anti-DDX3X antibody (green). 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.

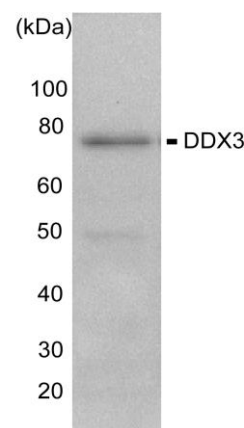


Fig. 1 Western blot analysis of DDX3 in the whole cell extracts HeLa cells (10<sup>6</sup>g) with anti-DDX3X antibody at 1,000 dilution

