

# DDX19A/B (Y-18): sc-79230

## BACKGROUND

DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. DEAD box proteins contain two conserved RecA-like domains that adopt different open structures in the absence of nucleic acid and closed structure when bound to RNA and ATP. They also exhibit RNA-dependent ATPase and ATP-dependent RNA-unwinding activities. DEAD box protein 19A (DDX19A) and DEAD box protein 19B (DDX19B), also known as DEAD box RNA helicase DEAD5 (Dbp5), are members of the DEAD box family. DDX19A and DDX19B localize to the cytoplasm and nuclear envelope and participate in the export of mRNA from the nucleus to the cytoplasm. DDX19B is activated by interactions mediated by Gle1 and is inhibited by Nup214.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DDX19A/DDX19B (human) mapping to 16q22.1; Ddx19a/Ddx19b (mouse) mapping to 8 E1.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## SOURCE

DDX19A/B (Y-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DDX19B of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79230 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

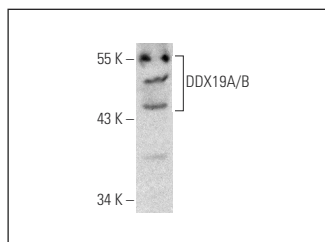
DDX19A/B (Y-18) is recommended for detection of DDX19B and DDX19A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

DDX19A/B (Y-18) is also recommended for detection of DDX19B and DDX19A in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of DDX19A/B: 54 kDa.

Positive Controls: K-562 nuclear extract: sc-2130.

## DATA



DDX19A/B (Y-18): sc-79230. Western blot analysis of DDX19A/B expression in K-562 nuclear extract.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.