

Datasheet for 600-401-GA2**YBX2 Antibody****Overview**

Description:	Anti-YBX2 (RABBIT) Antibody - 600-401-GA2
Item No.:	600-401-GA2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Germ cell specific Y-box binding protein (YBX2), a germ-cell-specific member of the Y-box family of DNA-/RNA-binding proteins, is a major constituent of messenger ribonucleoprotein particles (mRNPs) and involved in the regulation of the stability and/or translation of germ cell mRNAs. It is proposed to function as a coactivator of transcription in the nucleus and to stabilize and store maternal and paternal mRNAs in the cytoplasm. YBX2 binds to the Y-box consensus promoter element and is expressed in oocytes and testicular germ cells in the stage of spermatogonia to spermatocyte. Recent studies show that deletion of YBX2 leads to the disruption of both spermatogenesis and oogenesis.
Synonyms:	YBX2 Antibody, DBPC, MSY2, CSDA3, CONTRIN, Y-box-binding protein 2, Contrin, Dbpc
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	YBX2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-YBX2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human YBX2.

Purity/Specificity: Anti-YBX2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with YBX2 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q9Y2T7](#)
- [GeneID - 51087](#)
- [NCBI - NP_057066.2](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-YBX2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 39 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 10 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

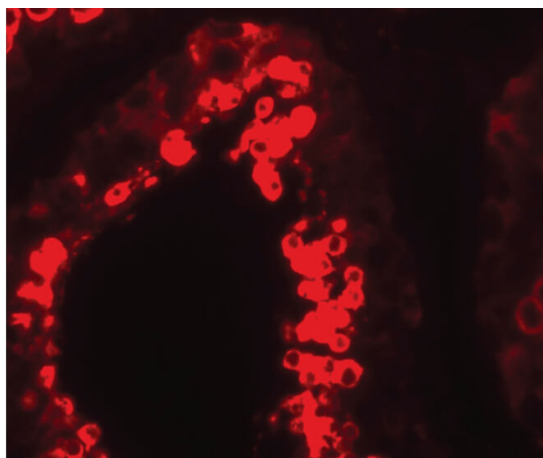
Shipping & Handling

Shipping Condition: Dry Ice

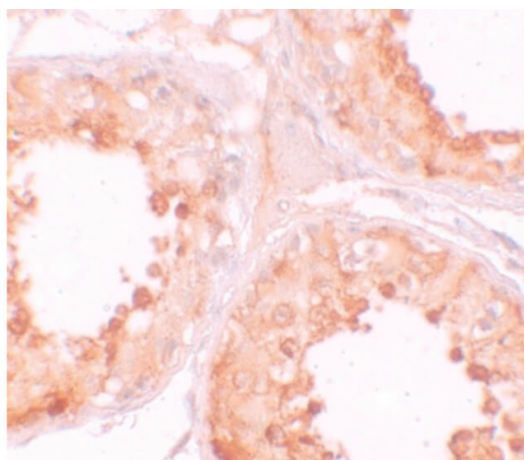
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

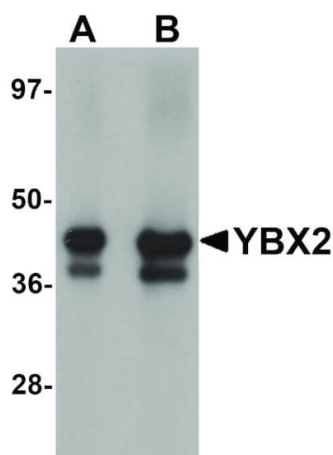
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of YBX2 antibody. Tissue: human testis tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: YBX2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: YBX2 is nuclear and cytoplasmic. Staining: YBX2 as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of YBX2 antibody. Tissue: Human testis tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: YBX2 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: YBX2 is nuclear and cytoplasmic. Staining: YBX2 as precipitated brown signal with purple nuclear counterstain.

**Western Blot**

Western Blot of YBX2 antibody. Lane 1: Human testis tissue lysate with YBX2 antibody at 1 $\mu\text{g/mL}$. Lane 2: Human testis tissue lysate with YBX2 antibody at 2 $\mu\text{g/mL}$. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 39 kDa, 43 kDa for YBX2. Other band(s): YBX2 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.