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YBX2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1412B

Specification

YBX2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y2T7
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38518**
Antigen Region	**294-323**

YBX2 Antibody (C-term) - Additional Information

Gene ID 51087

Other Names
Y-box-binding protein 2, Contrin, DNA-binding protein C, Dbpc, Germ cell-specific Y-box-binding protein, MSY2 homolog, YBX2, CSDA3, MSY2

Target/Specificity
This YBX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 294-323 amino acids from the C-terminal region of human YBX2.

Dilution
WB~~1:1000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
YBX2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

YBX2 Antibody (C-term) - Protein Information

Name YBX2

Synonyms CSDA3, MSY2

Function Major constituent of messenger ribonucleoprotein particles (mRNPs). Involved in the regulation of the stability and/or translation of germ cell mRNAs. Binds to Y-box consensus promoter element. Binds to full-length mRNA with high affinity in a sequence-independent manner. Binds to short RNA sequences containing the consensus site 5'-UCCAUCA- 3' with low affinity and limited sequence specificity. Its binding with maternal mRNAs is necessary for its cytoplasmic retention. May mark specific mRNAs (those transcribed from Y-box promoters) in the nucleus for cytoplasmic storage, thereby linking transcription and mRNA storage/translational delay (By similarity).

Cellular Location
Cytoplasm. Nucleus

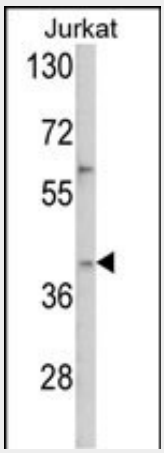
Tissue Location
Expressed in oocytes and testicular germ cells in the stage of spermatogonia to spermatocyte. Also observed placental trophoblasts, as well as in vascular smooth muscle cells in the pulmonary artery, myocardium, and skeletal muscle. Undetectable in epithelial cells in respiratory, gastrointestinal, and urogenital tracts. Up-regulated in various carcinomas and germ cell tumors (at protein level).

YBX2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

YBX2 Antibody (C-term) - Images



Western blot analysis of YBX2 Antibody (C-term) (Cat. #AP1412b) in Jurkat cell line lysates (35ug/lane). YBX2 (arrow) was detected using the purified Pab.

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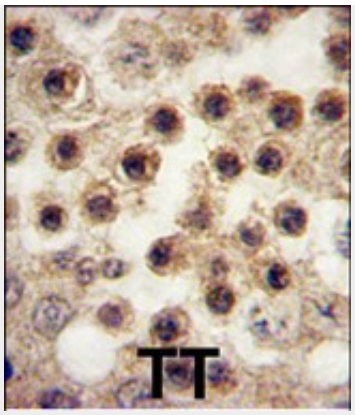

Formalin-fixed and paraffin-embedded human testis tissue reacted with YBX2 antibody (C-term) (Cat.#AP1412b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

YBX2 Antibody (C-term) - Background

YBX2 is a major constituent of messenger ribonucleoprotein particles (mRNPs). It is nvolved in the regulation of the stability and/or translation of germ cell mRNAs. It binds to Y-box consensus promoter element and to full length mRNA with high affinity in a sequence-independent manner. It binds to short RNA sequences containing the consensus site 5'-UCCAUCA-3' with low affinity and limited sequence specificity. Its binding with maternal mRNAs is necessary for its cytoplasmic retention. YBX2 may mark specific mRNAs (those transcribed from Y-box promoters) in the nucleus for cytoplasmic storage, thereby linking transcription and mRNA storage/translational delay.

YBX2 Antibody (C-term) - References

Kohno,Y., Br. J. Cancer 94 (5), 710-716 (2006)
Yoshida,T., Biochim. Biophys. Acta 1759 (1-2), 80-88 (2006)
Tekur,S., J. Androl. 20 (1), 135-144 (1999)
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