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YBX2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1412b

Specification

YBX2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9Y2T7

YBX2 Antibody (C-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP1412b was selected from the C-term region of human YBX2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

YBX2 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

YBX2 Antibody (C-term) Blocking Peptide - Images

YBX2 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)Gu,W., Biol. Reprod. 59 (5), 1266-1274 (1998)