

YB-1/YBX1 Rabbit pAb

Catalog No.: A7704 **2 Publications**

Basic Information

Observed MW

49kDa

Calculated MW

35kDa

Category

Primary antibody

Applications

WB,IHC,IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a highly conserved cold shock domain protein that has broad nucleic acid binding properties. The encoded protein functions as both a DNA and RNA binding protein and has been implicated in numerous cellular processes including regulation of transcription and translation, pre-mRNA splicing, DNA repair and mRNA packaging. This protein is also a component of messenger ribonucleoprotein (mRNP) complexes and may have a role in microRNA processing. This protein can be secreted through non-classical pathways and functions as an extracellular mitogen. Aberrant expression of the gene is associated with cancer proliferation in numerous tissues. This gene may be a prognostic marker for poor outcome and drug resistance in certain cancers. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on multiple chromosomes.

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:100 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID	Swiss Prot
4904	P67809

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 100-200 of human YB-1/YB-1/YBX1 (NP_004550.2).

Synonyms

YBX1;BP-8;CBF-A;CSDA2;CSDB;DBPB;EFI-A;MDR-NF1;NSEP-1;NSEP1;YB-1;YB1

Contact

 | www.abclonal.com

Product Information

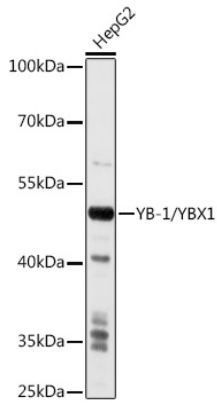
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of extracts of HepG2 cells, using YB-1/YB-1/YBX1 antibody (A7704) at 1:1000 dilution.

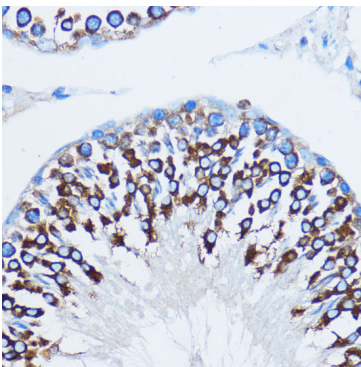
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

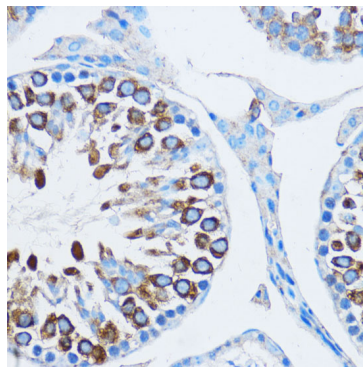
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

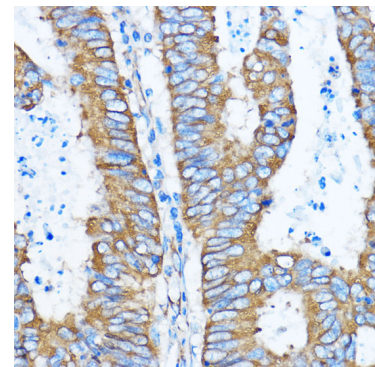
Exposure time: 10s.



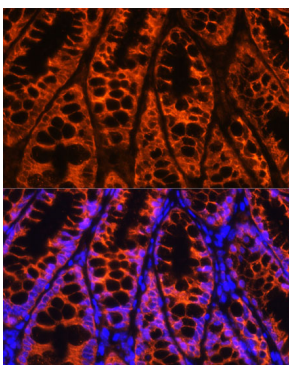
Immunohistochemistry of paraffin-embedded rat testis using YB-1/YB-1/YBX1 antibody (A7704) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



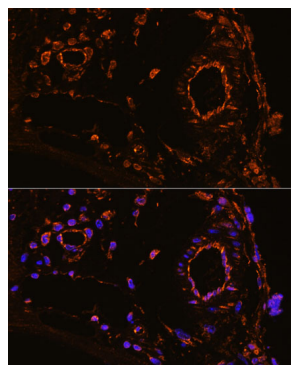
Immunohistochemistry of paraffin-embedded mouse testis using YB-1/YB-1/YBX1 antibody (A7704) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



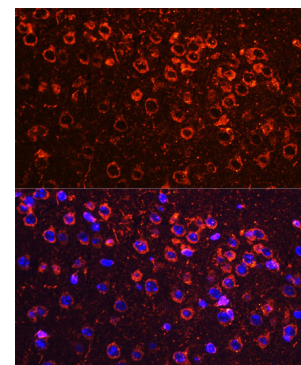
Immunohistochemistry of paraffin-embedded human colon carcinoma using YB-1/YB-1/YBX1 antibody (A7704) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunofluorescence analysis of mouse colon using YB-1/YB-1/YBX1 antibody (A7704) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse colone artery using YB-1/YB-1/YBX1 antibody (A7704) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse brain using YB-1/YB-1/YBX1 antibody (A7704) at dilution of 1:100. Blue: DAPI for nuclear staining.