

YB-1/YBX1 Rabbit mAb

Catalog No.: A3534 **Recombinant** **4 Publications**

Basic Information

Observed MW

49 kDa

Calculated MW

36 kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0797

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 | 1:2000 - 1:10000 |
| IP | 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells |
| IF/ICC | 1:200 - 1:800 |
| IHC-P | 1:200 - 1:2000 |
| ELISA | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

Contact

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Immunogen Information

Gene ID

4904

Swiss Prot

P67809

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

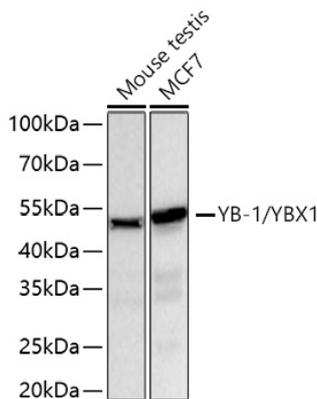
Affinity purification

Storage

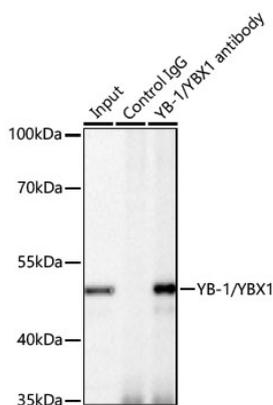
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

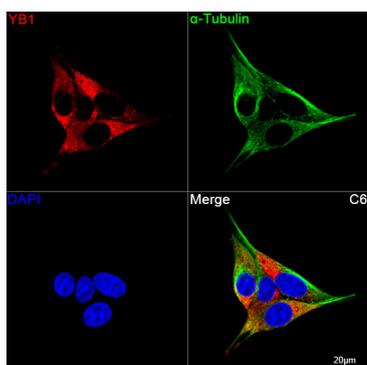
Validation Data



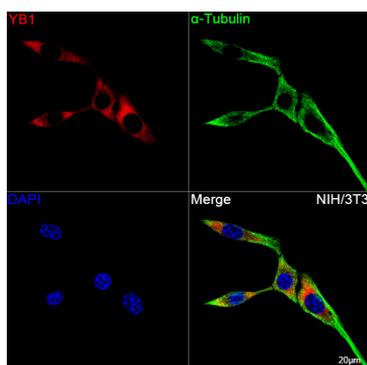
Western blot analysis of various lysates using YB-1/YBX1 Rabbit mAb (A3534) at 1:5000 dilution incubated at room temperature for 1.5 hours.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 20 s.



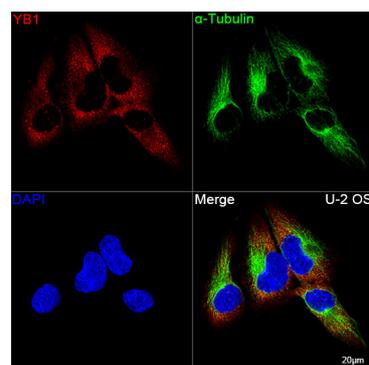
Immunoprecipitation of YB-1/YBX1 from 200 µg extracts of HeLa cells was performed using 0.5 µg of YB-1/YBX1 Rabbit mAb (A3534). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using YB-1/YBX1 Rabbit mAb (A3534) at a dilution of 1:1000.



Confocal imaging of C6 cells using YB-1/YBX1 Rabbit mAb (A3534, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

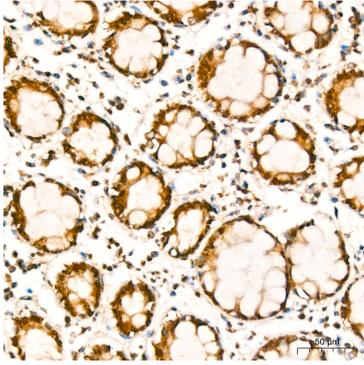


Confocal imaging of NIH/3T3 cells using YB-1/YBX1 Rabbit mAb (A3534, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

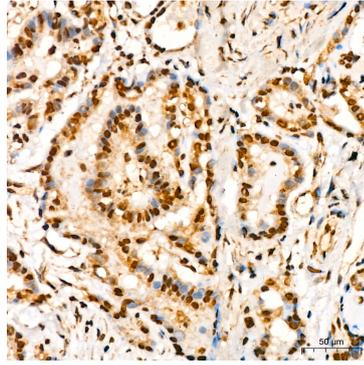


Confocal imaging of U-2 OS cells using YB-1/YBX1 Rabbit mAb (A3534, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

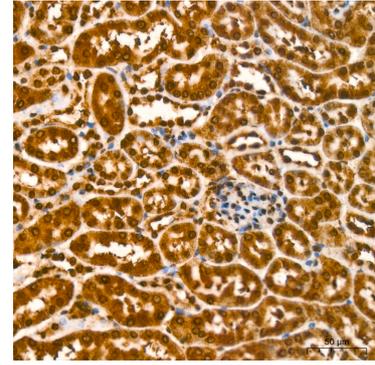
Validation Data



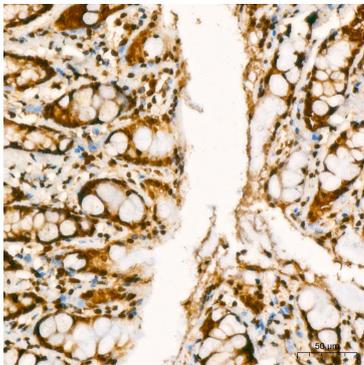
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using YB-1/YBX1 Rabbit mAb (A3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



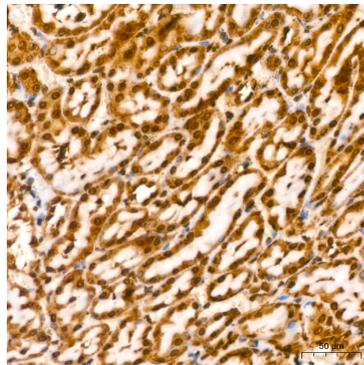
Immunohistochemistry analysis of paraffin-embedded Human thyroid tissue cancer using YB-1/YBX1 Rabbit mAb (A3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using YB-1/YBX1 Rabbit mAb (A3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using YB-1/YBX1 Rabbit mAb (A3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using YB-1/YBX1 Rabbit mAb (A3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.