YB-1/YBX1 Monoclonal Antibody

CAB3534

Description

This YB-1/YBX1 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB3534
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	YB1, BP-8, CSDB, DBPB, YB-1, CBF-A, CSDA2, EFI-A, NSEP1, NSEP-1, MDR-NF1, YB-1/YBX1
Clone:	ARC0797
Applications:	WB IHC-P IF/ICC IP ELISA
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	4904
Uniprot:	AB_2863082
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	49 kDa
Calculated MW:	36 kDa

Preparation & Storage

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.

Store Bradford Reagent at Room Temperature for 1 Year.

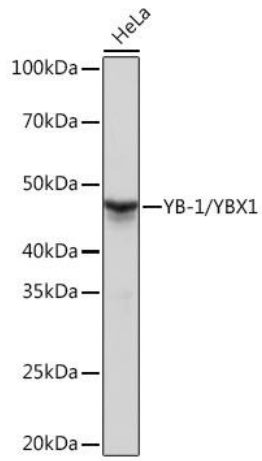
Positive Sample: HeLa, Rat heart

Recommended Dilutions:

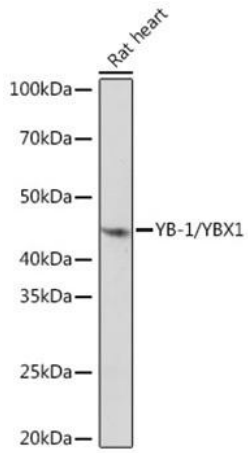
WB	1:1000 - 1:6000
IHC-P	1:200 - 1:2000
IF/ICC	1:200 - 1:800
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

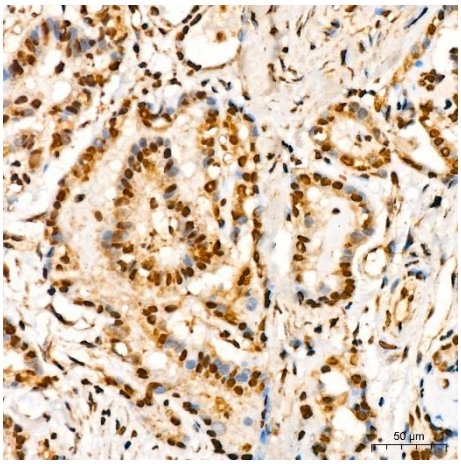
Validation Data



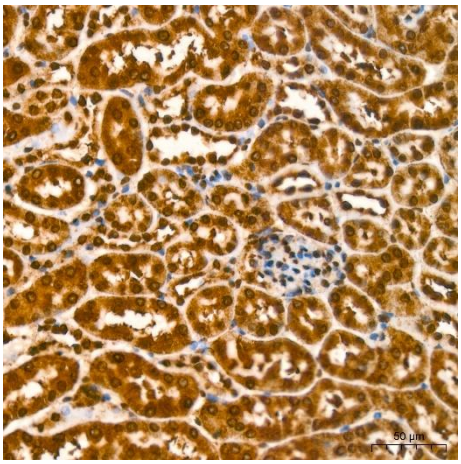
Western blot analysis of lysates from HeLa cells, using YB-1/ Rabbit mAb (CAB3534) at 1:1000 dilution dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1 s.



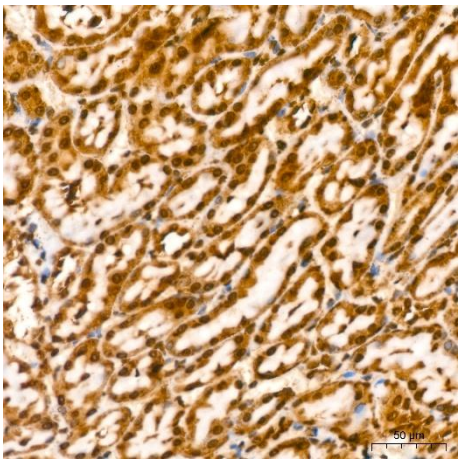
Western blot analysis of lysates from Rat heart using YB-1/ Rabbit mAb (CAB3534) at 1:1000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 10 s.



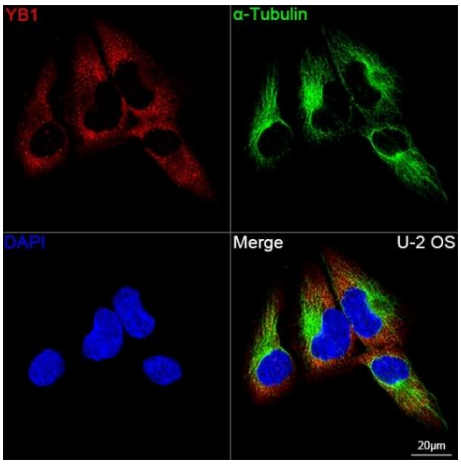
Immunohistochemistry analysis of paraffin-embedded Human thyroid tissue cancer using YB-1/ Rabbit mAb (CAB3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



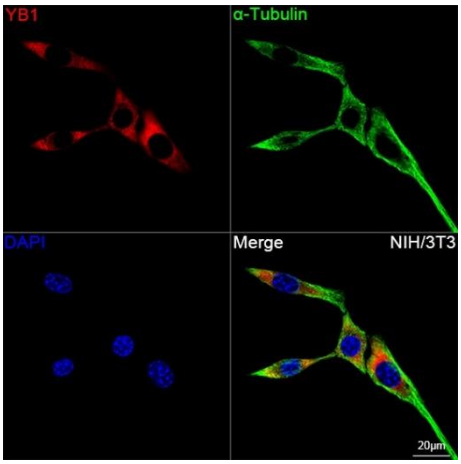
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using YB-1/ Rabbit mAb (CAB3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



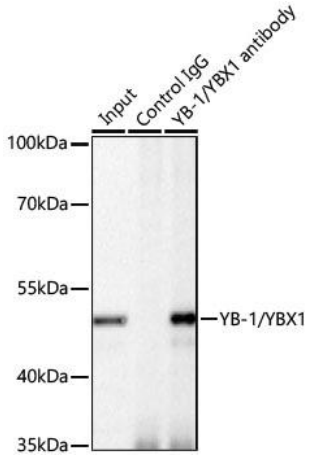
Immunohistochemistry analysis of paraffin-embedded Rat kidney using YB-1/ Rabbit mAb (CAB3534) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of U-2 OS cells using YB-1/ Rabbit mAb (CAB3534,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007,dilution 1:500)(Red).The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green).DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells using YB-1/ Rabbit mAb (CAB3534,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007,dilution 1:500)(Red).The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green).DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunoprecipitation of YB-1/ from 200 µg extracts of HeLa cells was performed using 0.5 µg of YB-1/ Rabbit mAb (CAB3534). Rabbit IgG isotype control (CABC042) 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/ Rabbit mAb (CAB3534) at a dilution of 1:1000.