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Anti-YAP1 Antibody Picoband®

Catalog Number: PB9967

About YAP1

YAP1, also known as YAP or YAP65, is a potent oncogene, which is amplified in various human cancers. This gene encodes a downstream nuclear effector of the Hippo signaling pathway which is involved in development, growth, repair, and homeostasis. It is known to play a role in the development and progression of multiple cancers as a transcriptional regulator of this signaling pathway and may function as a potential target for cancer treatment. Alternative splicing results in multiple transcript variants encoding different isoforms.

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Overview

Product Name	Anti-YAP1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat, Zebrafish
Description	Boster Bio Anti-YAP1 Antibody Picoband® catalog # PB9967. Tested in Flow Cytometry, IP, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat, Zebrafish. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P46937

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human YAP1, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human Immunocytochemistry/Immunofluorescence, 5ug/ml, Human Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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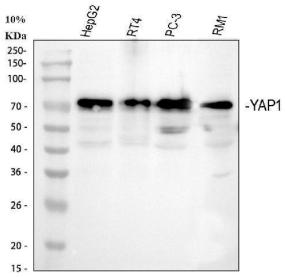
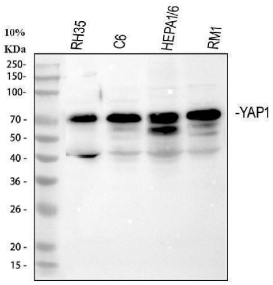
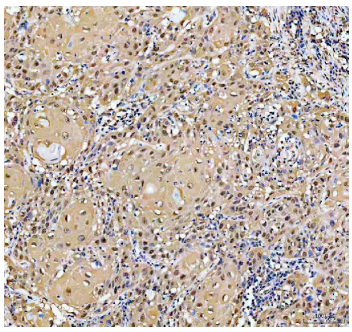
Anti-YAP1 Antibody Picoband® (PB9967) Images



Western blot analysis of YAP1 using anti-YAP1 antibody (PB9967). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: mouse RM1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-YAP1 antigen affinity purified polyclonal antibody (Catalog # PB9967) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for YAP1 at approximately 75 kDa. The expected band size for YAP1 is at 54 kDa.



Western blot analysis of YAP1 using anti-YAP1 antibody (PB9967). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat RH35 whole cell lysates, Lane 2: rat C6 whole cell lysates, Lane 3: mosue HEPA1-6 whole cell lysates, Lane 4: mouse RM1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-YAP1 antigen affinity purified polyclonal antibody (Catalog # PB9967) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for YAP1 at approximately 75 kDa. The expected band size for YAP1 is at 54 kDa.



IHC analysis of YAP1 using anti-YAP1 antibody (PB9967). YAP1 was detected in a paraffin-embedded section of human invasive urothelial carcinoma of the bladder with squamous differentiation tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-YAP1 Antibody (PB9967) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

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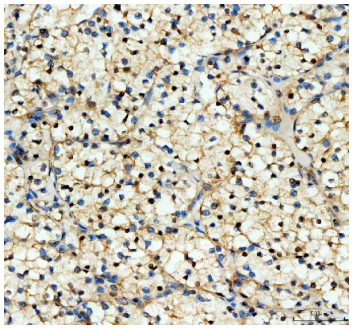
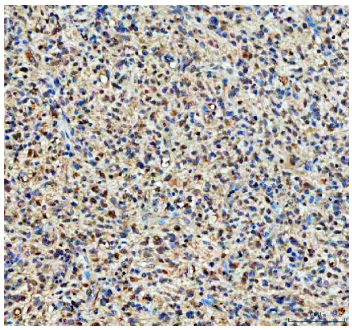
The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



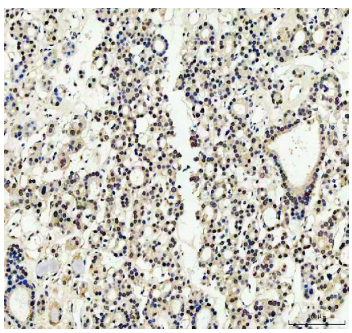
IHC analysis of YAP1 using anti-YAP1 antibody (PB9967). YAP1 was detected in a paraffin-embedded section of human renal clear cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-YAP1 Antibody (PB9967) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of YAP1 using anti-YAP1 antibody (PB9967). YAP1 was detected in a paraffin-embedded section of human diffuse large B-cell lymphoma of the intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-YAP1 Antibody (PB9967) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of YAP1 using anti-YAP1 antibody (PB9967). YAP1 was detected in a paraffin-embedded section of human glioblastoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-YAP1 Antibody (PB9967) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of YAP1 using anti-YAP1 antibody (PB9967). YAP1 was detected in a paraffin-embedded section of human thyroid tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-YAP1 Antibody (PB9967) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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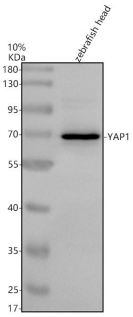
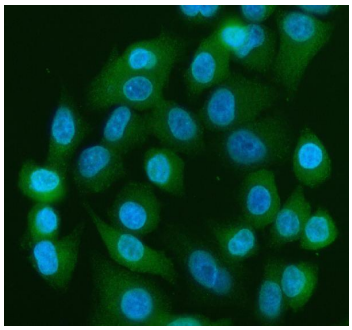
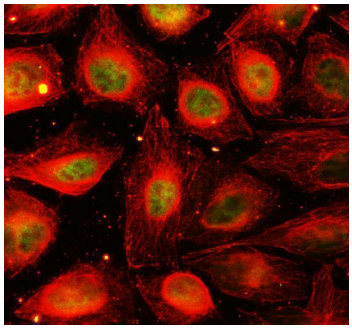


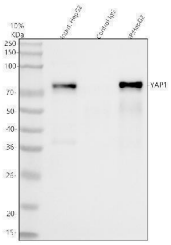
Western blot analysis of YAP1 using anti-YAP1 antibody (PB9967). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: Zebrafish head tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-YAP1 antigen affinity purified polyclonal antibody (PB9967) at 0.5 ug/ml overnight at 4°C, then washed with TBS-0.1%Tween-20 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for YAP1 at approximately 70 kDa.The expected band size for YAP1 is at 54 kDa.



IF analysis of YAP1 using anti-YAP1 antibody (PB9967). YAP1 was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-YAP1 Antibody (PB9967) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of YAP1 using anti-YAP1 antibody (PB9967) and anti-Beta Tubulin antibody (M01857-3). YAP1 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-YAP1 Antibody (PB9967) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Immunoprecipitating YAP1 in HepG2 whole cell lysate . Western blot analysis of YAP1 using anti-YAP1 antibody (PB9967). Lane 1: HepG2 whole cell lysates (30ug) Lane 2: Rabbit control IgG instead of anti-YAP1 antibody in HepG2 whole cell lysate. Lane 3: anti-YAP1 antibody (2ug) + HepG2 whole cell lysate (500ug) After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-YAP1 antigen affinity purified polyclonal antibody (PB9967) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus

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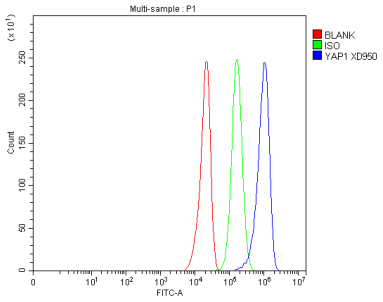
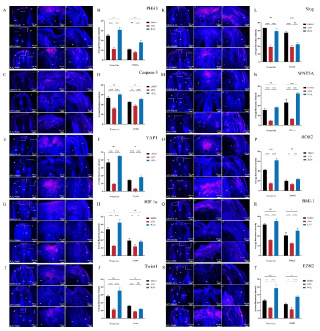
Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for YAP1 at approximately 75 kDa. The expected band size for YAP1 is at 54 kDa.



Flow Cytometry analysis of U251 cells using anti-YAP1 antibody (PB9967). Overlay histogram showing U251 cells stained with PB9967 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-YAP1 Antibody (PB9967, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



H 2 O 2 promotes cell proliferation, suppresses apoptosis, and activates key regenerative pathways in regenerating S. tsinlingensis tails at 7 dpa. Immunofluorescence analysis shows H 2 O 2 elevates PHH3 (A , B) and reduces Caspase-3 (C , D), while APO exhibits opposing effects on Caspase-3. H 2 O 2 enhances expression of YAP1 (E , F), blastema-specific HIF-1alpha (G , H) and Twist1 (I , J), and differentially regulates Slug (K , L). H 2 O 2 maintains WNT5A (M , N) and upregulates ROR2 at wound sites (O , P), whereas APO suppresses these markers. Both BMI-1 (Q , R) and EZH2 (S , T) are upregulated by H 2 O 2 and downregulated by APO. All panels display representative images (left) and mean fluorescence intensity quantifications (right) in wound/blastema and dermal regions (n = 3 for each group). Scale bars: 200 um. Abbreviations: at, adipose tissue; ce, central vertebra; de, dermis; mu, muscle; sc, spinal cord. Data are mean ± SD. Low-magnification images and corresponding high-magnification images (Ab, Ad, Kb, Kd) were obtained from different individuals within the same experimental group, each selected for optimal representation of tissue morphology (low-magnification) or fluorescent labeling clarity (high-magnification). All key structural features were consistent across biological replicatesSource: Zhang Yiwen et al. Licensed under CC BY 4.0. PMID: 42231459.

1 Publications Citing This Product

1. PubMed ID: 33610591, Zhang Q,Cao Y,Liu Y,Huang W,Ren J,Wang P,Song C,Fan K,Ba L,Wang L,Sun H.Shear stress inhibits cardiac microvascular endothelial cells apoptosis to protect against myocardial ischemia reperfusion injury via YAP/miR-206/PDCD4 signaling pathway.Biochem Pharm

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