

YAP1 Monoclonal Antibody (1A12)

Catalog NumberMA5-17200

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	1:10,000
Clone	1A12	Flow Cytometry (Flow)	1:200-1:400
Immunogen	Purified recombinant fragment of human YAP1 expressed in E. Coli.	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Conjugate	Unconjugated	Western Blot (WB)	1:500-1:2,000
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-17200 targets YAP1 in indirect ELISA, FACS, IHC, and WB applications and shows reactivity with Human samples. The MA5-17200 immunogen is purified recombinant fragment of human YAP1 expressed in E. Coli.

Background/Target Information

YAP (Yes-Associated Protein) is a founding member of the WW domain family of proteins, transcriptional co-activator and oncogene. Its gene is transcriptionally activated in squamous cell carcinoma cells. YAP can act both as a coactivator and corepressor and is the critical downstream regulatory target in the Hippo signaling pathway. The Hippo signaling pathway plays a pivotal role in organ size control and tumour suppression by restricting proliferation and promoting apoptosis. Also plays key roles in tissue tension, 3D tissue shape, cell proliferation, cell death, and cell migration. Mutations in the IRF5 gene results in coloboma.

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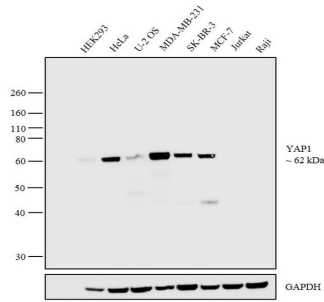
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Product Images For YAP1 Monoclonal Antibody (1A12)

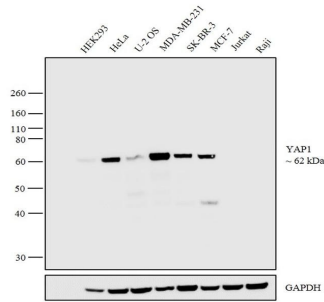
YAP1 Antibody (MA5-17200)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of YAP1 was observed in differentiated somatic cell lines (HEK293, HeLa, U-2 OS, MDA-MB-231, SK-BR-3 and MCF-7) in comparison to lymphoid cell lines (Jurkat and Raji) using YAP1 antibody (Product # MA5-17200) in western blot. {RE}



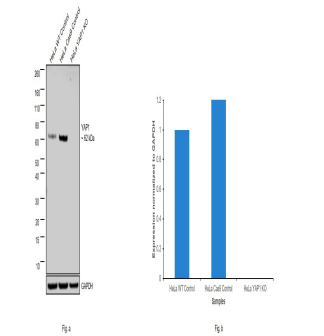
YAP1 Antibody (MA5-17200) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEK293 (Lane 1), HeLa (Lane 2), U-2 OS (Lane 3), MDA-MB-231 (Lane 4), SK-BR-3 (Lane 5), MCF-7 (Lane 6), Jurkat (Lane 7) and Raji (Lane 8). The blot was probed with Anti-YAP1 Monoclonal Antibody (Product # MA5-17200, 1:2000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/ml, 1:4000 dilution). A 62 kDa band corresponding to YAP1 was observed across all the cell lines tested except Jurkat and Raji.



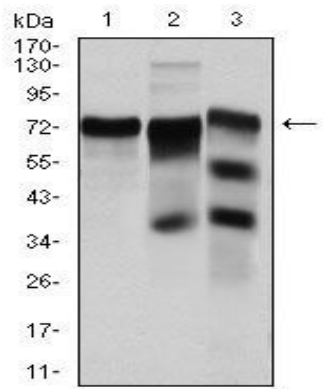
YAP1 Antibody (MA5-17200)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in YAP1 KO cell line compared to control cell line using Anti-YAP1 Monoclonal Antibody (1A12) (Product # MA5-17200). {KO}



YAP1 Antibody (MA5-17200) in WB

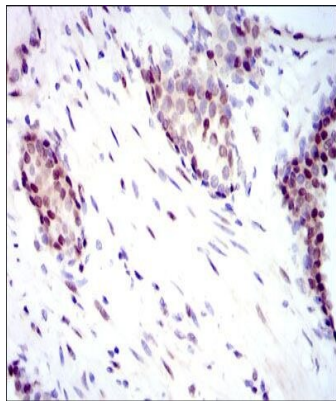
Western blot analysis of YAP1 using YAP1 monoclonal antibody (Product # MA5-17200) in HeLa (1), C6 (2) and COS-7 (3) cell lysate.



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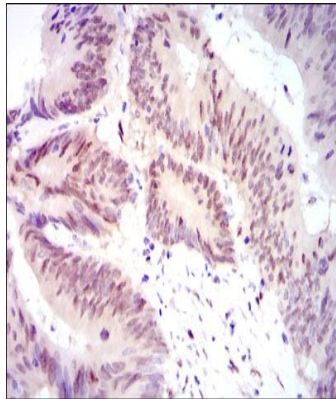
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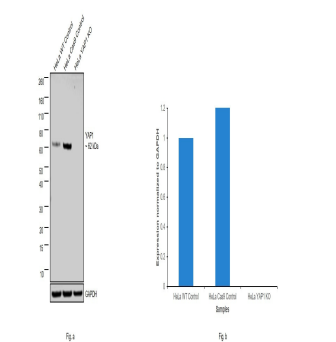
YAP1 Antibody (MA5-17200) in IHC (P)

Immunohistochemical analysis of paraffin-embedded prostate cancer tissues using YAP1 monoclonal antibody (Product # MA5-17200) followed with DAB staining.



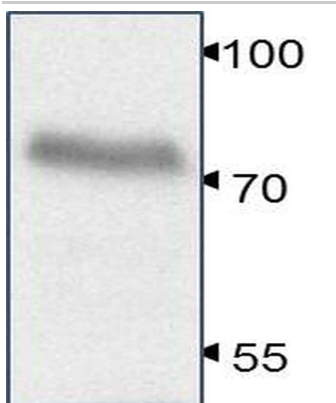
YAP1 Antibody (MA5-17200) in IHC (P)

Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using YAP1 monoclonal antibody (Product # MA5-17200) followed with DAB staining.



YAP1 Antibody (MA5-17200) in WB

Knockout of YAP1 was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR772157_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of YAP1 was performed by loading 30 µg of HeLa Wild Type (Lane 1), HeLa Cas9 (Lane 2) and HeLa YAP1 KO (Lane 3) whole cell extracts. The samples were electrophoresed using NuPAGE™ Novex™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Anti-YAP1 Monoclonal Antibody (1A12) (Product # MA5-17200, 1:2,000 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:5,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to YAP1.



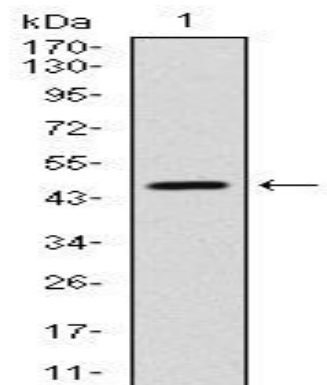
YAP1 Antibody (MA5-17200) in WB

Western blot analysis of histone YAP was performed by loading 40 µg of MCF-7 cell lysates and 3 µL PageRuler Prestained Protein Ladder (Product # 26619) per well onto a 10% Tris-HCl polyacrylamide gel. Proteins were transferred to a NC membrane and blocked with 5% skim milk/PBS-T for 1 h at room temperature. YAP1 was detected using a YAP1 antibody (Product # MA5-17200) at 1:1000 dilution in 5% BSA/PBS-T buffer overnight at 4°C on a rocking platform, followed by a goat anti-mouse IgG-HRP secondary antibody at a dilution in 5% skim milk/PBS-T of 1:3000 for 2 hour at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080). Data courtesy of Dr. Wei Xu at the University of Wisconsin, Madison, WI.

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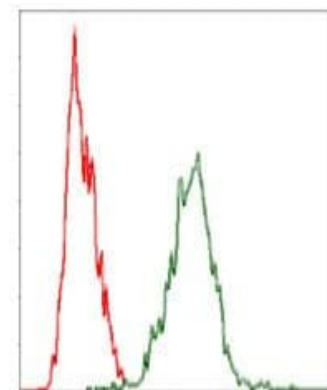
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YAP1 Antibody (MA5-17200) in WB

Western blot analysis of YAP1 using a YAP1 monoclonal antibody (Product # MA5-17200) against a human YAP1 (AA: 250-447) recombinant protein.



YAP1 Antibody (MA5-17200) in Flow

Flow cytometric analysis of HeLa cells using YAP1 monoclonal antibody (Product # MA5-17200) (green) and negative control (red).

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