

Cat. No: MAB-94469
Size: 100µg
Clone: D8H1X
Concentration: 1mg/ml
Host: Rb
Isotype: IgG
Reactivity: Hu,Ms,Rt

Applications: Western blotting 1:1000
Immunoprecipitation 1:20-1:50
Immunohistochemistry (Paraffin)
Unmasking buffer:
Immunofluorescence IF
Size: 100 ug
Concentration: 1mg/ml
Clone: D8H1X
1:50-1:200
1:50-1:200

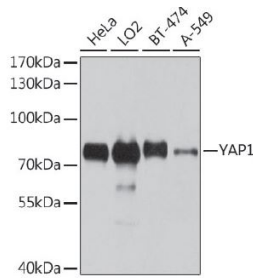
Molecular Weight: 65-75 kDa

Purification: Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human YAP protein. The epitope corresponds to a region surrounding Pro435 of human YAP isoform 1. This sequence region is 100% conserved among all known isoforms of human YAP protein.

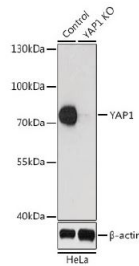
Background: YAP (Yes-associated protein, YAP65) was identified based on its ability to associate with the SH3 domain of Yes. It also binds to other SH3 domain-containing proteins such as Nck, Crk, Src, and Abl (1). In addition to the SH3 binding motif, YAP contains a PDZ interaction motif, a coiled-coil domain, and WW domains (2-4). While initial studies of YAP all pointed towards a role in anchoring and targeting to specific subcellular compartments, subsequent studies showed that YAP is a transcriptional coactivator by virtue of its WW domain interacting with the PY motif (PPxY) of the transcription factor PEBP2 and other transcription factors (5,6). In its capacity as a transcriptional coactivator, YAP is now widely recognized as a central mediator of the Hippo Pathway, which plays a fundamental and widely conserved role in regulating tissue growth and organ size. Upon phosphorylation at Ser127 by LATS1/2 kinases, YAP translocates to the cytoplasm, where it is sequestered through association with 14-3-3 proteins in an Akt-dependent manner (6-8). YAP (D8H1X) XP® Rabbit mAb recognizes endogenous levels of total YAP protein.

Form: Liquid

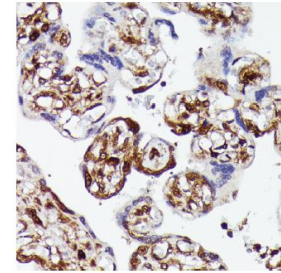
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.



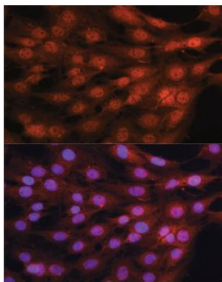
Western blot analysis of extracts of various cell lines, using YAP1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti- Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL West Pico Plus
Exposure time: 10s.



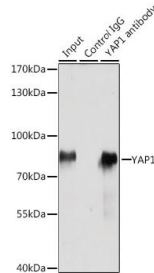
Western blot analysis of extracts from normal (control) and YAP1 knockout (KO) HeLa cells, using YAP1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti- Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit.
Exposure time: 90s.



Immunohistochemistry of paraffinembedded human placenta using YAP1 antibody at dilution of 1:100 (40x lens).



Immunofluorescence analysis of C6 cells using YAP1 antibody at dilution of 1:100.
Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of HeLa cells, using 3 ug YAP1 antibody. Western blot was performed from the immunoprecipitate using YAP1 antibody (at a dilution of 1:1000).

References

- (1) Sudol, M. (1994) *Oncogene* 9, 2145-52.
- (2) Mohler, P.J. et al. (1999) *J Cell Biol* 147, 879-90.
- (3) Espanel, X. and Sudol, M. (2001) *J Biol Chem* 276, 14514-23.
- (4) Sudol, M. et al. (1995) *FEBS Lett* 369, 67-71.
- (5) Yagi, R. et al. (1999) *EMBO J* 18, 2551-62.
- (6) Basu, S. et al. (2003) *Mol Cell* 11, 11-23.
- (7) Zhao, B. et al. (2010) *Genes Dev* 24, 862-74.
- (8) Zhao, B. et al. (2007) *Genes Dev* 21, 2747-61.

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