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YAP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant YAP1.
Catalog # AT4556a

Product Information

Application	WB, IHC, IF
Primary Accession	P46937
Other Accession	NM_006106
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2F12
Calculated MW	54462

Additional Information

Gene ID	10413
Other Names	Transcriptional coactivator YAP1, Yes-associated protein 1, Protein yorkie homolog, Yes-associated protein YAP65 homolog, YAP1, YAP65
Target/Specificity	YAP1 (NP_006097, 53 a.a. ~ 161 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	YAP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

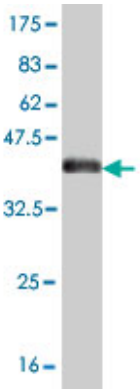
This gene encodes the human ortholog of chicken YAP protein which binds to the SH3 domain of the Yes proto-oncogene product. This protein contains a WW domain that is found in various structural, regulatory and signaling molecules in yeast, nematode, and mammals, and may be involved in protein-protein interaction.

References

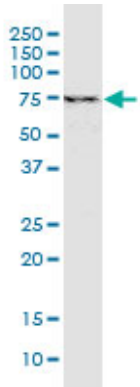
1.A functional interaction between Hippo-YAP signalling and FoxO1 mediates the oxidative stress response.Shao D, Zhai P, Del Re DP, Sciarretta S, Yabuta N, Nojima H, Lim DS, Pan D, Sadoshima JNat

Commun. 2014 Feb 14;5:3315. doi: 10.1038/ncomms4315.2.Stromal-epithelial crosstalk regulates kidney progenitor cell differentiation.Das A, Tanigawa S, Karner CM, Xin M, Lum L, Chen C, Olson EN, Perantoni AO, Carroll TJNat Cell Biol. 2013 Sep;15(9):1035-44. doi: 10.1038/ncb2828. Epub 2013 Aug 25.3.Serum deprivation inhibits the transcriptional co-activator YAP and cell growth via phosphorylation of the 130-kDa isoform of Angiomotin by the LATS1/2 protein kinases.Adler JJ, Johnson DE, Heller BL, Bringman LR, Ranahan WP, Conwell MD, Sun Y, Hudmon A, Wells CDProc Natl Acad Sci U S A. 2013 Oct 7.4.CDK1 phosphorylation of YAP promotes mitotic defects and cell motility and is essential for neoplastic transormation.Yang S, Zhang L, Liu M, Chong R, Ding SJ, Chen Y, Dong JCancer Res. 2013 Oct 7.5.Amot130 Adapts Atrophin-1 Interacting Protein 4 to Inhibit Yes-associated Protein Signaling and Cell Growth.Adler JJ, Heller BL, Bringman LR, Ranahan WP, Cocklin RR, Goebl MG, Oh M, Lim HS, Ingham RJ, Wells CDJ Biol Chem. 2013 May 24;288(21):15181-93. doi: 10.1074/jbc.M112.446534. Epub 2013 Apr 5.6.Tead4 is constitutively nuclear, while nuclear vs. cytoplasmic Yap distribution is regulated in preimplantation mouse embryos.Hirate Y, Cockburn K, Rossant J, Sasaki H.Proc Natl Acad Sci U S A. 2012 Dec 11;109(50):E3389-90. doi: 10.1073/pnas.1211810109. Epub 2012 Nov 20.7.YAP1 Recruits c-Abl to Protect Angiomotin-Like 1 from Nedd4-Mediated Degradation.Skouloudaki K, Walz G.PLoS One. 2012;7(4):e35735. Epub 2012 Apr 27.8.Hippo pathway regulation by cell morphology and stress fibers.Wada K, Itoga K, Okano T, Yonemura S, Sasaki H.Development. 2011 Sep;138(18):3907-14. Epub 2011 Aug 10.9.Inactivation of Merlin in malignant mesothelioma cells and the Hippo signaling cascade dysregulation.Sekido Y.Pathol Int. 2011 Jun;61(6):331-44. doi: 10.1111/j.1440-1827.2011.02666.x. Epub 2011 May 2.10.Identification of miR-193b targets in breast cancer cells and systems biological analysis of their functional impact.Leivonen SK, Rokka A, Ostling P, Kohonen P, Corthals GL, Kallioniemi O, Perala M.Mol Cell Proteomics. 2011 Apr 21. [Epub ahead of print]11.LATS2 Is a Tumor Suppressor Gene of Malignant Mesothelioma.Murakami H, Mizuno T, Taniguchi T, Fujii M, Ishiguro F, Fukui T, Akatsuka S, Horio Y, Hida T, Kondo Y, Toyokuni S, Osada H, Sekido Y.Cancer Res. 2011 Feb 1;71(3):873-83. Epub 2011 Jan 18.12.JNK phosphorylates Yes-associated protein (YAP) to regulate apoptosis.V Tomlinson, K Gudmundsdottir, P Luong, K-Y Leung, A Knebel, S Basu.Cell Death and Disease (2010) 1, e29; doi:10.1038/cddis.2010.713.Merlin Is a Potent Inhibitor of Glioma Growth.Lau YK, Murray LB, Houshmandi SS, Xu Y, Gutmann DH, Yu Q.Cancer Res. 2008 Jul 15;68(14):5733-42.

Images

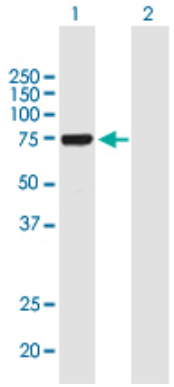


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



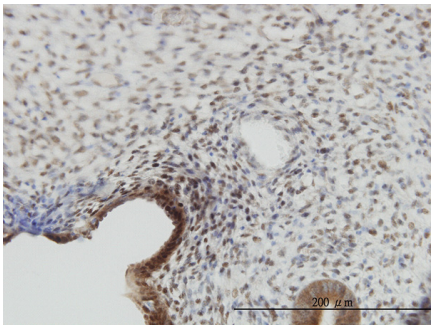
YAP1 monoclonal antibody (M01), clone 2F12. Western Blot analysis of YAP1 expression in Hela S3 NE.

Western Blot analysis of YAP1 expression in transfected 293T cell line by YAP1 monoclonal antibody (M01), clone

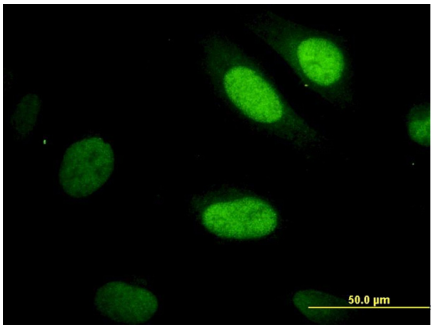


2F12.

Lane 1: YAP1 transfected lysate (Predicted MW: 54.5 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to YAP1 on formalin-fixed paraffin-embedded human endometrium. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to YAP1 on HeLa cell. [antibody concentration 30 ug/ml]

Citations

- Elevated expression of yes □associated protein is associated with the malignant status and prognosis of laryngeal squamous cell carcinoma.
- Energy stress regulates hippo-YAP signaling involving AMPK-mediated regulation of angiomotin-like 1 protein.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.