abcam

Product datasheet

Anti-YAP1 antibody [EP1674Y] ab52771

重组 RabMAb

16 Abreviews 217 References 12 图像

概述

产品名称	Anti-YAP1抗体[EP1674Y]
描述	兔单克隆抗体[EP1674Y] to YAP1
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
种属反应性	**与反应:** Human
免疫原	Synthetic peptide within Human YAP1 aa 400-500 (C terminal). The exact sequence is proprietary. Database link: **P46937** (Peptide available as **ab173007**)
阳性对照	WB: HeLa whole cell lysate; Human thyroid cancer lysates. IHC-P: Human breast carcinoma and thyroid carcinoma tissue. ICC/IF: MCF7 cells. IP: YAP1 in HeLa whole cell lysate. Flow Cyt (intra): HeLa cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1674Y
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab52771于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

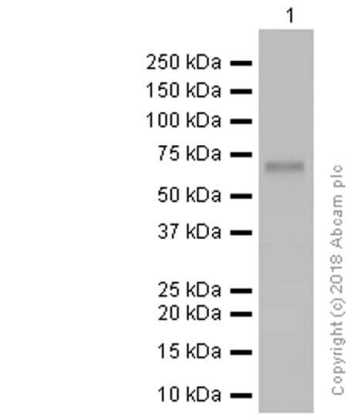
应用	Ab评论	说明
Flow Cyt (Intra)		1/20. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1:50.
WB	★★★★☆ (5)	1/5000 - 1/50000. Detects a band of approximately 72 kDa (predicted molecular weight: 65 kDa).
IP	★★★★★ (3)	1/20. **For unpurified use at 1:70.**
IHC-P	★★★★☆ (3)	1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (5)	1/100 - 1/500.

靶标

功能	Transcriptional regulator which can act both as a coactivator and a corepressor and is the critical downstream regulatory target in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Plays a key role to control cell proliferation in response to cell contact. Phosphorylation of YAP1 by LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. The presence of TEAD transcription factors are required for it to stimulate gene expression, cell growth, anchorage-independent growth, and epithelial mesenchymal transition (EMT) induction. Isoform 2 and isoform 3 can activate the C-terminal fragment (CTF) of ERBB4 (isoform 3).
组织特异性	Increased expression seen in some liver and prostate cancers. Isoforms lacking the transactivation domain found in striatal neurons of patients with Huntington disease (at protein level).
序列相似性	Belongs to the YORKIE family. Contains 2 WW domains.
翻译后修饰	Phosphorylated by LATS1 and LATS2; leading to cytoplasmic translocation and inactivation.

	Phosphorylated by ABL1; leading to YAP1 stabilization, enhanced interaction with TP73 and recruitment onto proapoptotic genes; in response to DNA damage.
细胞定位	Cytoplasm. Nucleus. Both phosphorylation and cell density can regulate its subcellular localization. Phosphorylation sequesters it in the cytoplasm by inhibiting its translocation into the nucleus. At low density, predominantly nuclear and is translocated to the cytoplasm at high density.

图片



Western blot - Anti-YAP1 antibody [EP1674Y] (ab52771)

Anti-YAP1 antibody [EP1674Y] (ab52771) at 1/5000 dilution (purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates at 15 µg

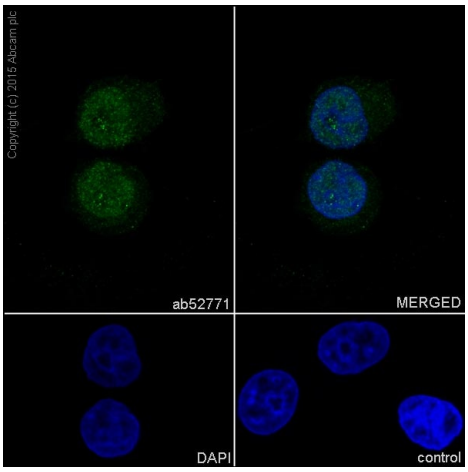
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 65 kDa

Observed band size: 72 kDa

Blocking/Diluting buffer: 5% NFDM/TBST

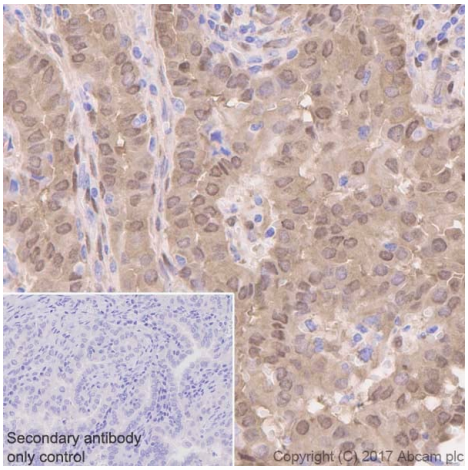


Immunocytochemistry/ Immunofluorescence - Anti-YAP1 antibody [EP1674Y] (ab52771)

Immunocytochemistry/Immunofluorescence analysis of MCF-7 (Human breast adenocarcinoma cell line) cells labeling YAP1 with purified ab52771 at 1/500.

Cells were fixed with 4% paraformaldehyde and permeabilized by 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody (**ab150077**).

Nuclei counterstained with DAPI (blue).

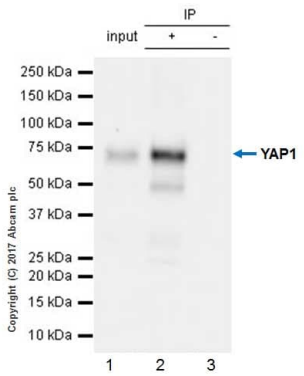


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YAP1 antibody [EP1674Y] (ab52771)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue sections labeling YAP1 with purified ab52771 at 1:50 dilution (1.78 µg/ml).

Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody.

PBS instead of the primary antibody was used as the negative control.



Immunoprecipitation - Anti-YAP1 antibody [EP1674Y] (ab52771)

ab52771 (purified) at 1:20 dilution (0.5 µg) immunoprecipitating YAP1 in HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate.

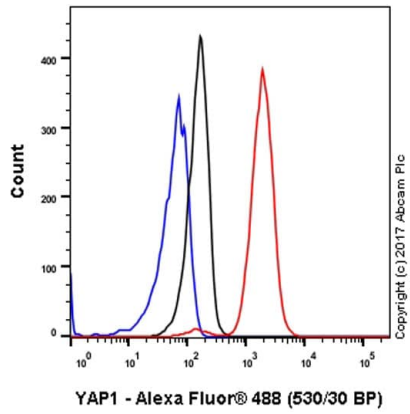
Lane 1: HeLa whole cell lysate 10 µg input.

Lane 2: ab52771 in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab52771 in HeLa whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

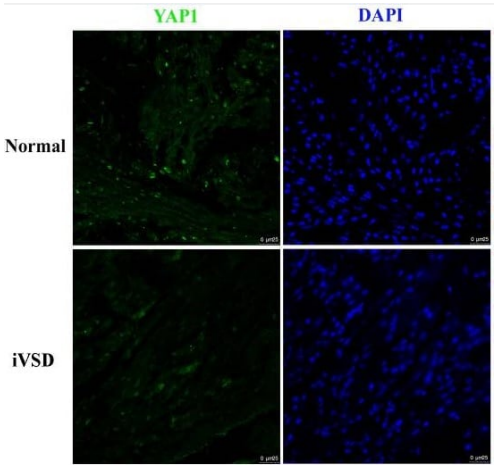
Blocking/Diluting buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-YAP1 antibody [EP1674Y] (ab52771)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling YAP1 with purified ab52771 at 1/20 dilution (10µg/ml) (**red**).

Cells were fixed with 4% paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluorr® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (**Black**). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (**Blue**).



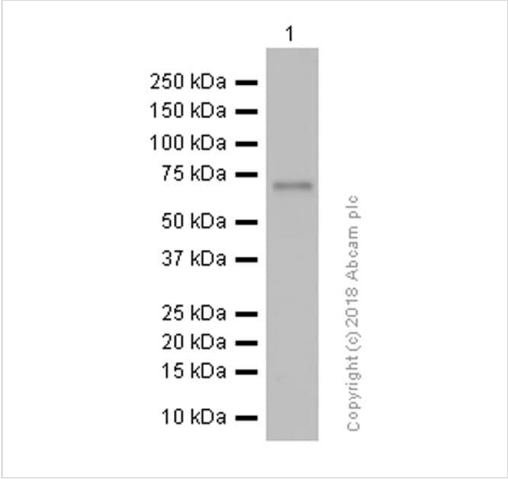
Immunocytochemistry/ Immunofluorescence - Anti-YAP1 antibody [EP1674Y] (ab52771)

Ye et al PLoS One. 2015 Oct 1;10(10):e0139712. doi: 10.1371/journal.pone.0139712. eCollection 2015. Fig 2. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Immunofluorescence revealed that YAP1 expression was significantly lower in iVSD hearts compared to control hearts.

YAP1 (green), and DAPI (blue) staining are shown; Scale bar = 25 µm.

Cryosections of human heart tissue were blocked using 10% FBS for 30 min, and then incubated with anti YAP1 (ab52771, 1:200) at room temperature for 2 h. The slides were then incubated with the following secondary antibody, Alexa Fluor® 488-conjugated anti-rabbit (Abcam, **ab150073**; 1:1,000 dilution). Cell nuclei were stained with DAPI.



Western blot - Anti-YAP1 antibody [EP1674Y] (ab52771)

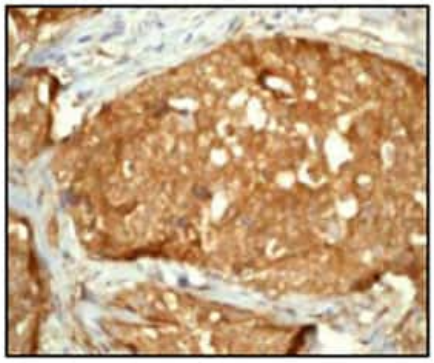
Anti-YAP1 antibody [EP1674Y] (ab52771) at 1/50000 dilution (purified) + Human thyroid cancer lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

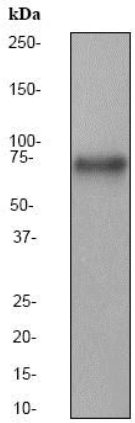
Predicted band size: 65 kDa
Observed band size: 72 kDa

Blocking/Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YAP1 antibody [EP1674Y] (ab52771)

Immunohistochemical staining of YAP1 in paraffin embedded human breast carcinoma tissue using unpurified ab52771 at a 1/100 dilution.



Western blot - Anti-YAP1 antibody [EP1674Y] (ab52771)

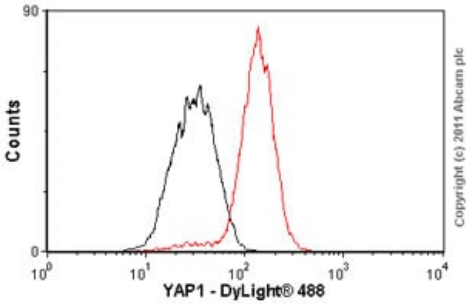
Anti-YAP1 antibody [EP1674Y] (ab52771) at 1/50000 dilution (unpurified) + HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate at 10 µg

Secondary

Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 65 kDa

Observed band size: 72 kDa



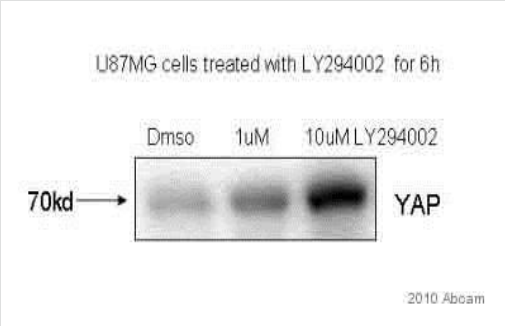
Flow Cytometry (Intracellular) - Anti-YAP1 antibody [EP1674Y] (ab52771)

Overlay histogram showing HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained with unpurified ab52771 (**red line**).

The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab52771, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C.

Isotype control antibody (**black line**) was rabbit IgG (monoclonal) (1 µg/1x10^6 cells) used under the same conditions.

Acquisition of >5,000 events was performed.



Western blot - Anti-YAP1 antibody [EP1674Y] (ab52771)

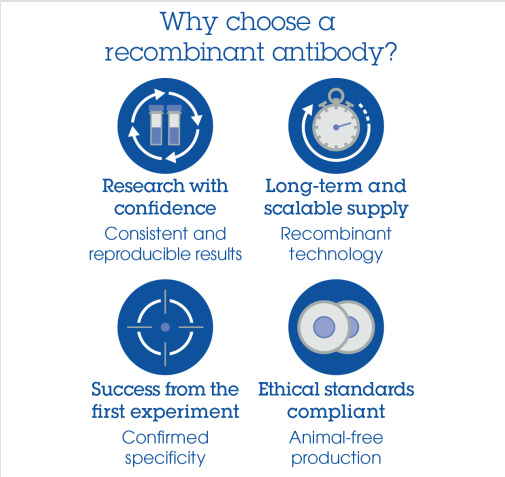
Image courtesy of an anonymous Abreview.

All lanes are unpurified ab52771 at a 1/1000 dilution plus whole cell lysate prepared from U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells, treated with DMSO or 1 µM and 10 µM LY294002, 50 µg positive control loaded.

Primary antibody was incubated for 16 hours at 4°C.

Blocking step was performed using 5% milk for 1 hour at 23°C.

Secondary used was a goat polyclonal conjugated to HRP, at a 1/10,000 dilution.



Anti-YAP1 antibody [EP1674Y] (ab52771)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors