

## Product datasheet

# Anti-active YAP1 antibody [EPR19812] ab205270

**KO** **VALIDATED** Recombinant RabMAB<sup>®</sup>

★★★★★ [22 Abreviews](#) [43 References](#) [16 Images](#)

### Overview

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<b>Product name</b>	Anti-active YAP1 antibody [EPR19812]
<b>Description</b>	Rabbit monoclonal [EPR19812] to active YAP1
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab205270 is specific to the active (non-phosphorylated) form of YAP1.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	<b>This product was produced with the following immunogens:</b> Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.  Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: 293A cell lysate serum starved overnight, then 10% FBS was added to medium for 1 hour; 293A cell lysate serum starved overnight and then treated with Lambda phosphatase lysate. Human kidney and skin lysates and mouse testis and skin lysates. HaCaT whole cell lysate, 293A cell lysate. HeLa and NIH/3T3 treated with Calyculin A. IHC-P: Human breast and breast cancer tissues; Mouse skin tissue. ICC/IF: 293A cell line serum starved overnight, then 10% FBS was added to medium for 1 hour; 293A cells.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAB <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a> .

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.

<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19812
<b>Isotype</b>	IgG

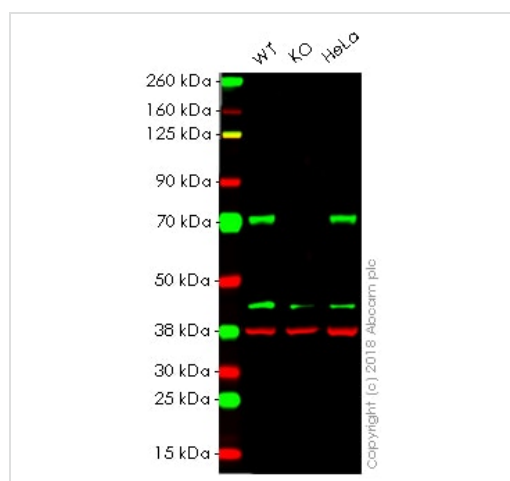
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab205270 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (2)	1/500.
IHC-P	★★★★★ (10)	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (2)	1/1000. Detects a band of approximately 75 kDa (predicted molecular weight: 54 kDa).

## Target

## Images



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes** : Anti-active YAP1 antibody [EPR19812] (ab205270) at 1 µg/ml

**Lane 1** : Wild-type HAP1 whole cell lysate

**Lane 2** : YAP1 knockout HAP1 whole cell lysate

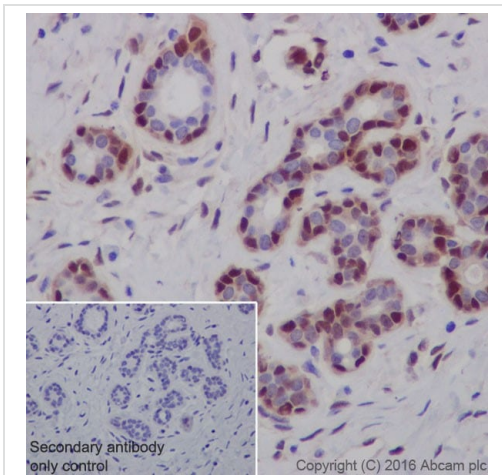
**Lane 3** : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 54 kDa

**Lanes 1 - 3:** Merged signal (red and green). Green - ab205270 observed at 54 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab205270 was shown to recognize active YAP1 in wild-type HAP1 cells as signal was lost at the expected MW in active YAP1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and active YAP1 knockout samples were subjected to SDS-PAGE. Ab205270 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-active YAP1 antibody [EPR19812] (ab205270)

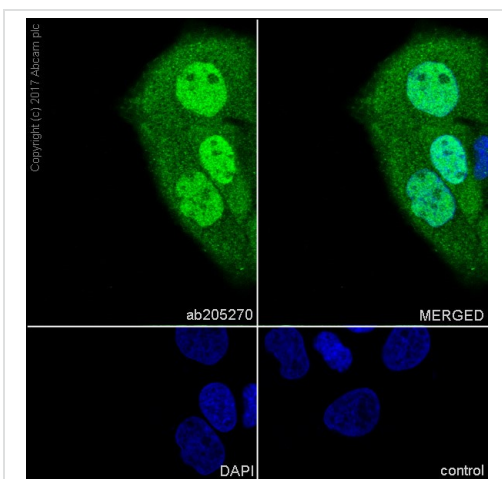
Immunohistochemical analysis of paraffin-embedded human breast tissue labeling active YAP1 with ab205270 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Mainly nuclear staining on human breast is observed [PMID: 18617895].

Counter stained with Hematoxylin.

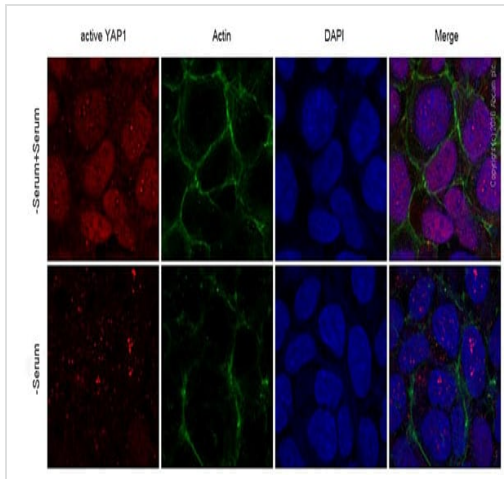
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-active YAP1 antibody [EPR19812] (ab205270)

Ab205270 staining active YAP1 in HUVEC (human umbilical vein endothelial cell) cells by Immunocytochemistry/Immunofluorescence (ICC/IF). The cells were fixed 4% Paraformaldehyde and permeabilized with 0.1% TritonX-100. Samples were incubated with primary antibody at 1:500 dilution. An Alexa Fluor® 488 Goat anti-Rabbit was used as a secondary antibody at 1:1000 dilution. DAPI was used as a nuclear counter stain. Confocal image showing nuclear and cytoplasmic staining in HUVEC cells.



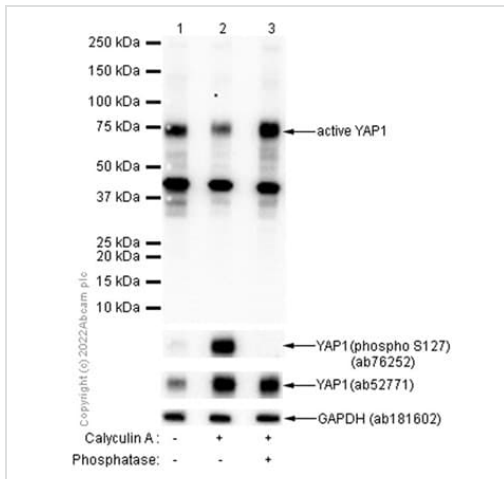
Immunocytochemistry/ Immunofluorescence - Anti-active YAP1 antibody [EPR19812] (ab205270)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton/PBS permeabilized (RT, 5 mins) 293A (Human epithelial cell line from embryonic kidney transformed with sheared human adenovirus type 5 DNA) cells labeling active YAP1 with ab205270 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 594) secondary antibody at 1/1000 dilution.

The images showed weak staining on 293A cells under serum starvation overnight. After 10% FBS was added to the medium for 1h, the nuclear staining was increased.

The data was kindly provided by our collaborator Dr. Bin Zhao (Zhejiang University).

The nuclear counterstain is DAPI (blue). Counterstained with Phalloidin-technology® Alexa Fluor 488 at 1/1000 dilution.



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes :** Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1 :** Untreated HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 15 µg

**Lane 2 :** HeLa treated with 100ng/ml Calyculin A for 30 min whole cell lysate at 15 µg

**Lane 3 :** HeLa treated with 100ng/ml Calyculin A for 30 min whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

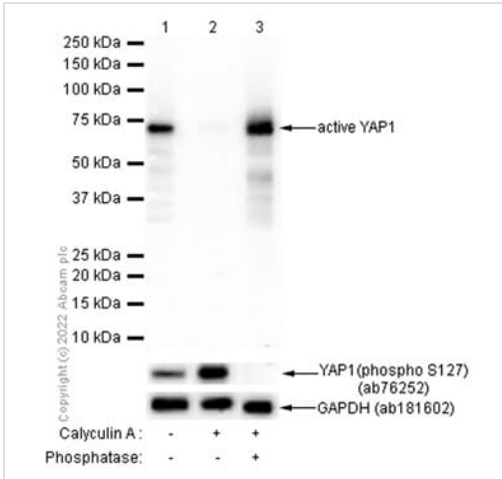
Developed using the ECL technique.

**Predicted band size:** 54 kDa

**Observed band size:** 75 kDa

**Exposure time:** 80 seconds

Blocking buffer: 5% NFDm/TBST.



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes** : Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1** : Untreated NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate at 15 µg

**Lane 2** : NIH/3T3 treated with 100ng/ml Calyculin A for 30 min whole cell lysate at 15 µg

**Lane 3** : NIH/3T3 treated with 100ng/ml Calyculin A for 30 min whole cell lysate, then the membrane treated with Alkaline Phosphatase for 1 hour

### Secondary

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

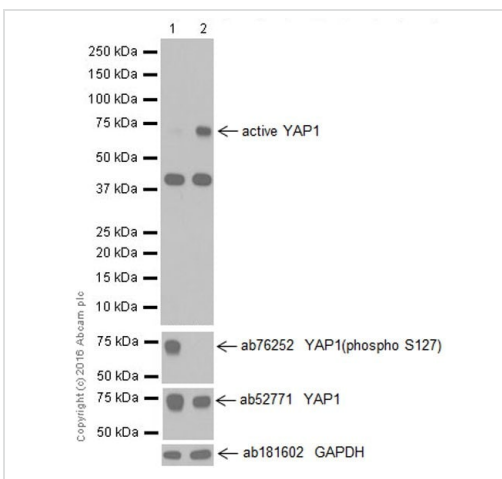
Developed using the ECL technique.

**Predicted band size:** 54 kDa

**Observed band size:** 75 kDa

**Exposure time:** 20 seconds

Blocking buffer: 5% NFD/MTBST.



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes** : Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1** : 293A cells under serum starvation overnight lysate

**Lane 2** : 293A cell lysate under serum starvation overnight, then 10% FBS was added to medium for 1 hour

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 54 kDa

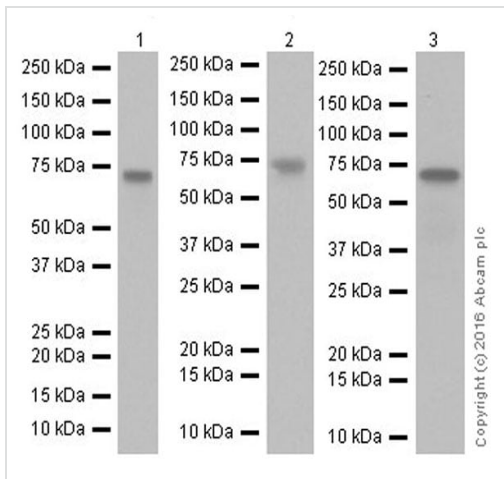
**Observed band size:** 75 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

Serum starvation induces active YAP1 Ser127 phosphorylation.

The level of active YAP1 protein is inversely proportional to p-YAP1 Ser127 level (PMID: 22884261).



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes :** Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1 :** Human kidney lysate

**Lane 2 :** Human skin lysate

**Lane 3 :** HaCaT (Human keratinocyte cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**Lanes 1-2 :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

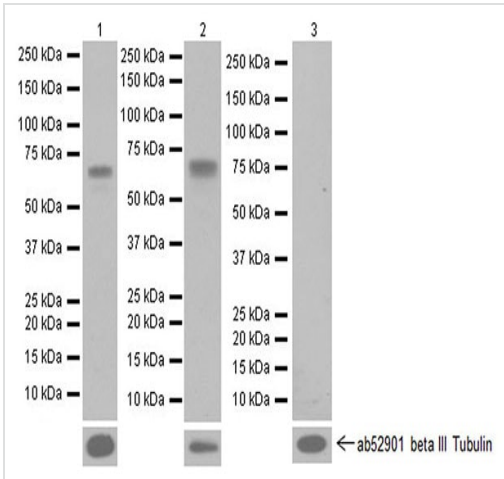
**Lane 3 :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 54 kDa

**Observed band size:** 75 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1/2: 8 seconds; Lane 3: 30 seconds.



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes** : Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1** : Mouse testis lysate

**Lane 2** : Mouse skin lysate

**Lane 3** : Mouse liver lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

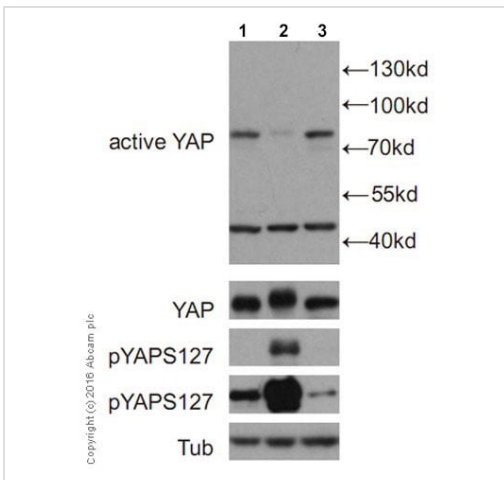
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 54 kDa

**Observed band size:** 75 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 10 seconds; Lane 2: 8 seconds; Lane 3: 3 minutes.



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes** : Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1** : 293A cell lysate serum starved overnight and then 10% FBS added to the medium for 1 hour

**Lane 2** : 293A cell lysate serum starved overnight

**Lane 3** : 293A cell lysate serum starved overnight and then treated with Lambda phosphatase

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : donkey anti-rabbit at 1/1000 dilution

**Predicted band size:** 54 kDa

**Observed band size:** 75 kDa

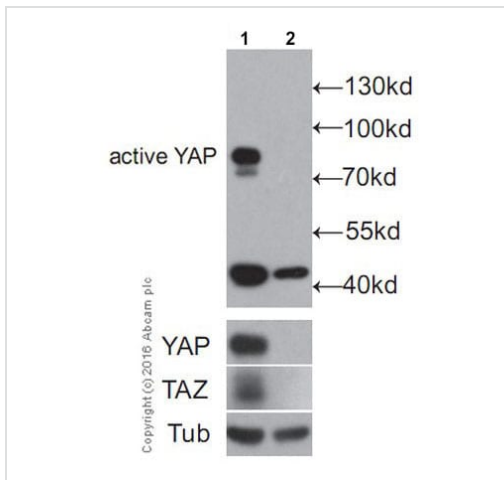
**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% BSA/TBST.



The two panels for pYAPS127 were just shorter and longer exposure.

The data was kindly provided by our collaborator Dr. Bin Zhao (Zhejiang University).



Western blot - Anti-active YAP1 antibody [EPR19812] (ab205270)

**All lanes :** Anti-active YAP1 antibody [EPR19812] (ab205270) at 1/1000 dilution

**Lane 1 :** 293A cell lysate

**Lane 2 :** YAP/TAZ knockout 293A cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** donkey anti-rabbit at 1/1000 dilution

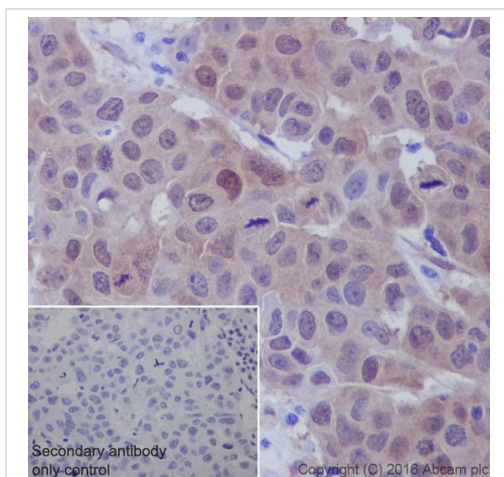
**Predicted band size:** 54 kDa

**Observed band size:** 75 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% BSA/TBST.

The data was kindly provided by our collaborator Dr. Bin Zhao (Zhejiang University).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-active YAP1 antibody [EPR19812] (ab205270)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling active YAP1 with ab205270 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

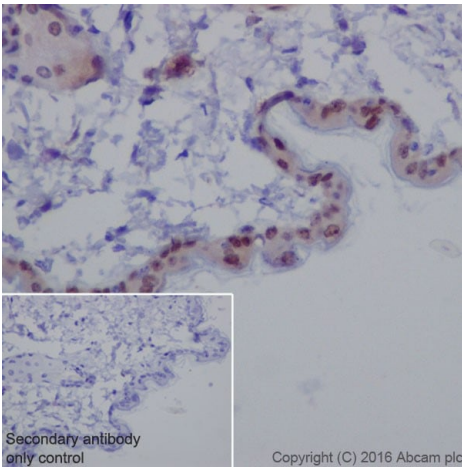
Nuclear and cytoplasmic staining on human breast cancer is observed [PMID: 24559095].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-active YAP1 antibody [EPR19812] (ab205270)

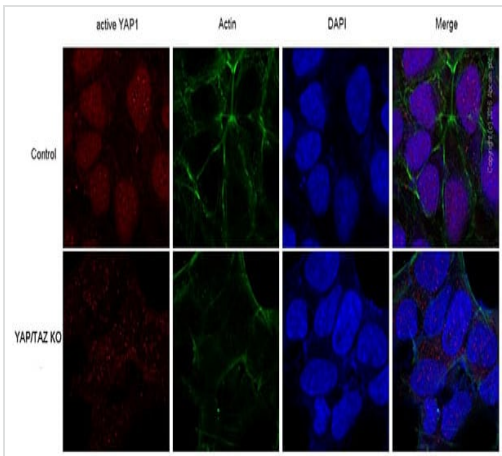
Immunohistochemical analysis of paraffin-embedded mouse skin tissue labeling active YAP1 with ab205270 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Mainly nuclear staining on mouse skin is observed [PMID: 21610251].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



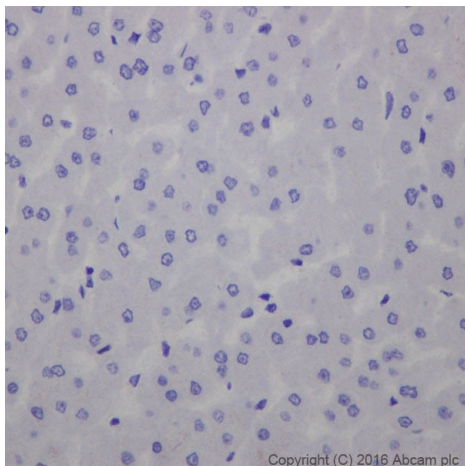
Immunocytochemistry/ Immunofluorescence - Anti-active YAP1 antibody [EPR19812] (ab205270)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton/PBS permeabilized (RT, 5 mins) 293A (Human epithelial cell line from embryonic kidney transformed with sheared human adenovirus type 5 DNA) cells labeling active YAP1 with ab205270 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor<sup>®</sup> 594) secondary antibody at 1/1000 dilution.

The images showed nuclear staining on 293A cells, and background staining on YAP/TAZ knockout 293A cells.

The data was kindly provided by our collaborator Dr. Bin Zhao (Zhejiang University).

The nuclear counterstain is DAPI (blue). Counterstained with Phalloidin-technology<sup>®</sup> Alexa Fluor 488 at 1/1000 dilution.



Immunohistochemical analysis of paraffin-embedded human liver tissue labeling active YAP1 with ab205270 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

**Negative control:** no staining on human liver [PMID:17974916].

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-active YAP1 antibody [EPR19812] (ab205270)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-active YAP1 antibody [EPR19812] (ab205270)

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

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- Extensive multi-media technical resources to help you
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