

## Product datasheet

# Anti-YAP1 (phospho Y357) antibody ab62751

★★★★★ 1 Abreviews 20 References 2 Images

### Overview

<b>Product name</b>	Anti-YAP1 (phospho Y357) antibody
<b>Description</b>	Rabbit polyclonal to YAP1 (phospho Y357)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Horse, Chicken, Cow, Dog, Xenopus laevis, Chimpanzee, Zebrafish, Opossum
<b>Immunogen</b>	Synthetic phosphopeptide: GLSMSSY <sup>P</sup> SVPRT conjugated to KLH, corresponding to C-terminal amino acids 351-362 (phosho Y357) of Human YAP1. <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	HEK-293T cells co-transfected with human YAP1 and human c-Abl.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

### Properties

## Properties

<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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab62751 was affinity-purified using the immunizing peptide immobilized on agarose.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab62751** 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
WB		Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).
ICC/IF	★★★★☆	Use a concentration of 5 - 10 µg/ml.

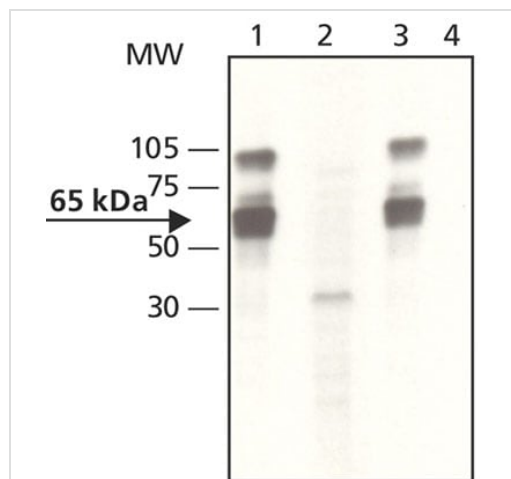
## Target

<b>Function</b>	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).
<b>Tissue specificity</b>	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).
<b>Sequence similarities</b>	Belongs to the YORKIE family. Contains 2 WW domains.
<b>Post-translational modifications</b>	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.

## Cellular localization

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.

## Images



Western blot - Anti-YAP1 (phospho Y357) antibody (ab62751)

**All lanes :** Anti-YAP1 (phospho Y357) antibody (ab62751) at 1/2000 dilution

**Lane 1 :** Whole cell lysates of HEK-293T cells co-transfected with human YAP1 and human c-Abl

**Lane 2 :** Whole cell lysates of untransfected HEK-293T cells

**Lane 3 :** Whole cell lysates of HEK-293T cells co-transfected with human YAP1 and human c-Abl with YAP1 peptide (human 351-362) at 20 µg/ml

**Lane 4 :** Whole cell lysates of HEK-293T cells co-transfected with human YAP1 and human c-Abl with phospho-YAP1 (human 351-362 [phospho Y357]) immunizing peptide at 20 µg/ml

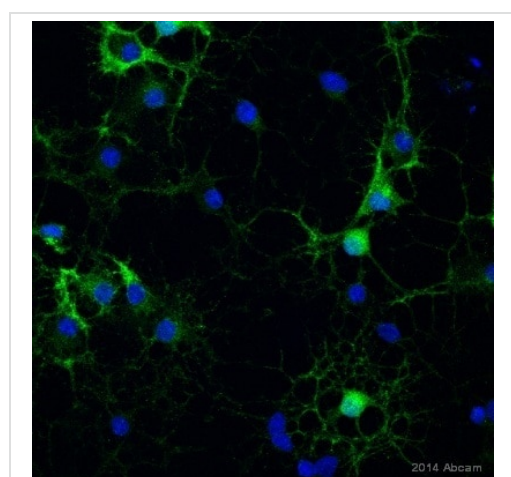
### Secondary

**All lanes :** Goat Anti-Rabbit IgG, Peroxidase conjugate

**Predicted band size:** 65 kDa

**Observed band size:** 65 kDa

**Additional bands at:** 100 kDa, 70 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-YAP1 (phospho Y357) antibody (ab62751)

This image is courtesy of an anonymous Abreview

ab62751 staining YAP1 (phospho Y357) in rat oligodendrocytes by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% normal goat serum for 1 hour at 20°C. Samples were incubated with primary antibody (1/300 in PBS + 10% normal goat serum) for 18 hours at 4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal (1/1000) was used as the secondary antibody.

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

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