

**Product Name: Phospho-YAP1 (S127) (14M14) Rabbit  
Monoclonal Antibody  
Catalog #: AMRe06050**

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## Summary

<b>Production Name</b>	Phospho-YAP1 (S127) (14M14) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,IHC-F
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type
<b>Buffer</b>	preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	YAP1
<b>Alternative Names</b>	65 kDa Yes associated protein; YAP; YAP 1; YAP2; YAP 65;YKI; Yorkie homolog;
<b>Gene ID</b>	10413.0
<b>SwissProt ID</b>	P46937.

## Application

<b>Dilution Ratio</b>	WB 1:1000-1:5000,IHC-P/IHC-F 1:100-1:200
<b>Molecular Weight</b>	54kDa

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## Background

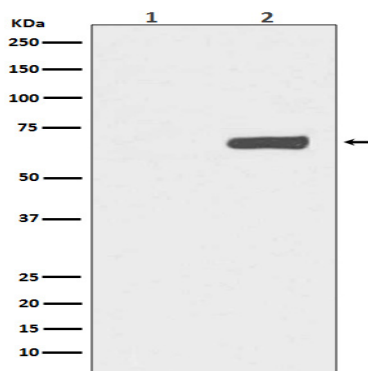
YAP (Yes-associated protein, YAP65) was identified based on its ability to associate with the SH3 domain of Yes. Transcriptional regulator which can act both as a coactivator and a corepressor and is the critical downstream regulatory target in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. 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 (PubMed:<a href="http://www.uniprot.org/citations/17974916" target="\_blank">17974916</a>, PubMed:<a href="http://www.uniprot.org/citations/18280240" target="\_blank">18280240</a>, PubMed:<a href="http://www.uniprot.org/citations/18579750" target="\_blank">18579750</a>, PubMed:<a href="http://www.uniprot.org/citations/21364637" target="\_blank">21364637</a>, PubMed:<a href="http://www.uniprot.org/citations/30447097" target="\_blank">30447097</a>). The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, 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 (PubMed:<a href="http://www.uniprot.org/citations/18158288" target="\_blank">18158288</a>). Plays a key role in tissue tension and 3D tissue shape by regulating cortical actomyosin network formation. Acts via ARHGAP18, a Rho GTPase activating protein that suppresses F-actin polymerization (PubMed:<a href="http://www.uniprot.org/citations/25778702" target="\_blank">25778702</a>). Plays a key role in controlling 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 (PubMed:<a href="http://www.uniprot.org/citations/18158288" target="\_blank">18158288</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/18579750" target="\_blank">18579750</a>). Suppresses ciliogenesis via acting as a transcriptional corepressor of the TEAD4 target genes AURKA and PLK1 (PubMed:<a href="http://www.uniprot.org/citations/25849865" target="\_blank">25849865</a>). In conjunction with WWTR1, involved in the regulation of TGFB1-dependent SMAD2 and SMAD3 nuclear accumulation (By similarity).

## Research Area

## Image Data

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Western blot analysis of Phospho-YAP1 (S127) expression in (1) HeLa cell lysate; (2) HeLa cell lysate treated with FBS+calyculin A.

## **Note**

For research use only.