



Phospho-YAP1 (S127) Recombinant Monoclonal Antibody

Product Code	CSB-RA026244A127phHU
Abbreviation	Transcriptional coactivator YAP1
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P46937
Immunogen	A synthesized peptide derived from Human Phospho-YAP1 (S127)
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	<p>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:17974916, PubMed:18280240, PubMed:18579750, PubMed:21364637). 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:18158288). 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:25778702). 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 (PubMed:18158288). 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:18579750).</p>
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Transcriptional coactivator YAP1, Protein yorkie homolog, Yes-associated protein YAP65 homolog, YAP1, YAP65
Immunogen Species	Homo sapiens (Human)

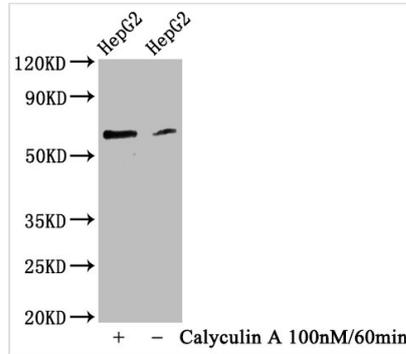


Research Area Signal Transduction

Gene Names YAP1

Clone No. 3F3

Image



Western Blot

Positive WB detected in HepG2 whole cell lysate (treated with Calyculin A or not)

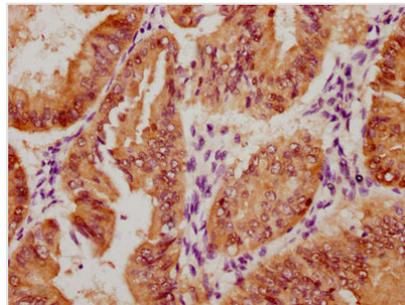
All lanes Phospho-YAP1 antibody at 0.83µg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 65 KDa

Observed band size: 65 KDa



IHC image of CSB-RA026244A127pHU diluted at 1:100 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Description

The synthesized DNA sequence corresponding to the pS127-YAP1 monoclonal antibody was cloned into the plasmid and then transfected into the cell line for expression. The product was purified through the affinity-chromatography method and obtained the specifically phosphorylated YAP1 recombinant monoclonal antibody. This anti-S127-YAP1 recombinant antibody is a rabbit IgG and has been tested in scientific applications, including ELISA, WB, and IHC. It only reacts with human YAP1 phosphorylated at Ser 127 residue.

The transcriptional coactivator YAP1 is involved in cell proliferation, cell-cell interactions, organ size, and tumorigenesis. YAP1's nuclear activity is dependent on post-transcriptional changes and nuclear translocation. Androgen reduces Androgen attenuates the inactivating phospho-Ser-127 modification of YAP1 and promotes YAP1 nuclear abundance and activity. The traditional Hippo kinase cascade is known to phosphorylate YAP1 at Ser127, which is required for its cytoplasmic localization and inactivation.