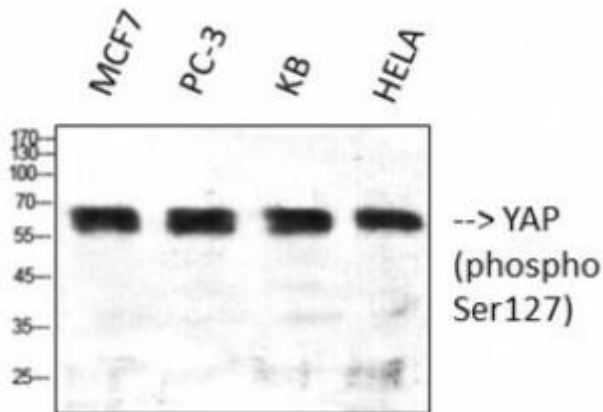


## Phospho-YAP (S127) antibody

Cat# NB-22-0868 (100 ul)

Cat# NB-22-0868-S (20ul)



Western Blot (WB) analysis of 293 cells using Cleaved-Caspase-8(D384) Polyclonal Antibody.

### Product Description

YAP is a protein encoded by the YAP1 gene which is approximately 54,5 kDa. YAP is localised to the cytoplasm and nucleus. It is involved in signalling by ERBB4, gene expression, metabolism and hippo signalling pathway. It is a transcriptional regulator which can act both as a coactivator and a corepressor and is the critical downstream regulatory target in the Hippo signalling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. YAP is expressed in the liver, lung, nervous system, pancreas and skin with increased expression seen in some liver and prostate cancers. Mutations in the YAP1 gene may result in Coloboma. This primary antibody specifically binds to endogenous YAP protein which only binds about S127 when S127 is phosphorylated.

### Product Information

<b>Code</b>	NB-22-0868
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Applications</b>	WB, ELISA, IHC, IF

<b>Immunogen</b>	Synthesized peptide derived from human YAP around the phosphorylation site of S127.
<b>Immunogen Region</b>	70-150aa
<b>Gene ID</b>	10413
<b>Dilution range</b>	WB 1:500-1:2000; IHC 1 :100-1 :300 ; ELISA 1 :40000
<b>Specificity</b>	Phospho-YAP (S127) Polyclonal Antibody detects endogenous levels of YAP protein only when phosphorylated at S127.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For research use only.
<b>Protein Name</b>	Yorkie homolog
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Molecular Weight</b>	65 kDa
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C. Avoid repeated freeze/thaw cycles.

## Target

<b>Database Links</b>	Genecards: <a href="#">10413</a>
<b>Alternative names</b>	YAP1 / Yes associated protein 1 / 65 kDa Yes-associated protein antibody, A306_11918 antibody, Anapl_05631 antibody, AS27_10336 antibody, AS28_13359 antibody, CB1_000877029 antibody, COB1 antibody, D623_10023412 antibody, EH28_23042 antibody, H920_12966 antibody, hir antibody, hypothetical protein antibody, I79_001484 antibody, M91_12766 antibody, M959_14455 antibody, N300_01681 antibody, N301_15931 antibody, N302_15449 antibody, N303_08975 antibody, N305_11814 antibody, N306_00390 antibody, N307_13191 antibody, N309_13599 antibody, N310_12765 antibody,

N312\_00961 antibody, N320\_01936 antibody, N327\_12630 antibody, N329\_07877 antibody, N330\_14321 antibody, N334\_11728 antibody, N335\_13876 antibody, N336\_11720 antibody, N339\_05440 antibody, N340\_04852 antibody, N341\_05447 antibody, PANDA\_010993 antibody, Protein hirame antibody, Protein yorkie homolog antibody, Protein yorkie homolog-B antibody, Transcriptional coactivator YAP1 antibody, Transcriptional coactivator YAP1-B antibody, TREES\_T100006565 antibody, UY3\_04727 antibody, xyap antibody, Y1Q\_008882 antibody, Y956\_13575 antibody, YAP antibody, yap1-b antibody, YAP2 antibody, YAP65 antibody, YAP-65 antibody, yes-associated protein 1 antibody, Yes-associated protein 1, 65 kD antibody, Yes-associated protein 1, 65kDa antibody, Yes-associated protein 1-B antibody, yes-associated protein 2 antibody, yes associated protein 65 antibody, yes-associated protein, 65 kDa antibody, Yes-associated protein YAP65 homolog antibody, Yes-associated protein YAP65 homolog B antibody, yki antibody, Yorkie antibody, yorkie homolog antibody, yorkie-like protein antibody, Yorkie like protein antibody, zYAP antibody

## Function

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 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. 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. 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: 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 and Domain Family</b>	The first coiled-coil region mediates most of the interaction with TEAD transcription factors. / Belongs to the YAP1 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. Phosphorylation at Ser-400 and Ser-403 by CK1 is triggered by previous phosphorylation at Ser-397 by LATS proteins and leads to YAP1 ubiquitination by SCF (beta-TRCP) E3 ubiquitin ligase and subsequent degradation. Phosphorylated at Thr-119, Ser-138, Thr-154, Ser-367 and Thr-412 by MAPK8/JNK1 and MAPK9/JNK2, which is required for the regulation of apoptosis by YAP1. / Ubiquitinated by SCF (beta-TRCP) E3 ubiquitin ligase.
<b>Cellular Localization</b>	Cytoplasm / Nucleus

*For reference only*

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