

YAP / YAP1 Antibody (aa93-142)
Rabbit Polyclonal Antibody
Catalog # ALS16535**Specification**

YAP / YAP1 Antibody (aa93-142) - Product Information

Application	IHC, WB
Primary Accession	P46937
Other Accession	10413
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	54462

YAP / YAP1 Antibody (aa93-142) - Additional Information**Gene ID** 10413**Other Names**

YAP1, 65 kDa Yes-associated protein, YAP, Yes-associated protein beta, Yes-associated protein delta, Yorkie homolog, YAP2, Yes-associated protein 1, Yes-associated protein 2, YKI, YAP65

Target/Specificity

YAP Antibody detects endogenous levels of total YAP protein.

Reconstitution & Storage

PBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C for up to one year.

Precautions

YAP / YAP1 Antibody (aa93-142) is for research use only and not for use in diagnostic or therapeutic procedures.

YAP / YAP1 Antibody (aa93-142) - Protein Information**Name** YAP1**Synonyms** YAP65**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 (PubMed:17974916, PubMed:18280240, PubMed:18579750, PubMed:21364637, PubMed:<a

[30447097](http://www.uniprot.org/citations/30447097)). 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 ([18158288](http://www.uniprot.org/citations/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 ([25778702](http://www.uniprot.org/citations/25778702)). 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 ([18158288](http://www.uniprot.org/citations/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 ([18579750](http://www.uniprot.org/citations/18579750)). Suppresses ciliogenesis via acting as a transcriptional corepressor of the TEAD4 target genes AURKA and PLK1 ([25849865](http://www.uniprot.org/citations/25849865)). In conjunction with WWTR1, involved in the regulation of TGFB1-dependent SMAD2 and SMAD3 nuclear accumulation (By similarity).

Cellular Location

Cytoplasm. Nucleus. Cell junction {ECO:0000250|UniProtKB:P46938}. Note=Both phosphorylation and cell density can regulate its subcellular localization (PubMed:18158288, PubMed:20048001). Phosphorylation sequesters it in the cytoplasm by inhibiting its translocation into the nucleus (PubMed:18158288, PubMed:20048001). At low density, predominantly nuclear and is translocated to the cytoplasm at high density (PubMed:18158288, PubMed:20048001, PubMed:25849865). PTPN14 induces translocation from the nucleus to the cytoplasm (PubMed:22525271). Localized mainly to the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm at the blastocyst and epiblast stages (By similarity). {ECO:0000250|UniProtKB:P46938, ECO:0000269|PubMed:18158288, ECO:0000269|PubMed:20048001, ECO:0000269|PubMed:22525271, ECO:0000269|PubMed:25849865}

Tissue Location

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).

Volume

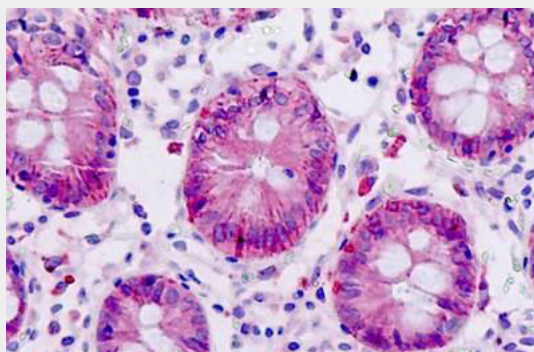
50 µl

YAP / YAP1 Antibody (aa93-142) - Protocols

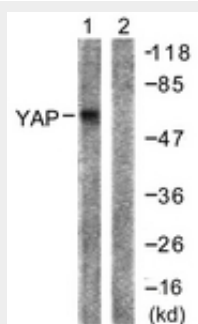
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

YAP / YAP1 Antibody (aa93-142) - Images



Anti-YAP / YAP1 antibody IHC staining of human intestine.



Western blot of extracts from HepG2 cells, treated with Wortmannin 40 nM 24h, using YAP (Ab-127)...

YAP / YAP1 Antibody (aa93-142) - Background

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YAP / YAP1 Antibody (aa93-142) - References

- Sudol M.,et al.J. Biol. Chem. 270:14733-14741(1995).
- Komuro A.,et al.J. Biol. Chem. 278:33334-33341(2003).
- Inazawa J.,et al.Submitted (JUN-2010) to the EMBL/GenBank/DDBJ databases.
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Taylor T.D.,et al.Nature 440:497-500(2006).