

**YAP1 Blocking Peptide**  
**Catalog # PBV10365b****Specification**

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**YAP1 Blocking Peptide - Product Information**

Primary Accession	<a href="#">P46937</a>
Gene ID	<b>10413</b>
Calculated MW	<b>54462</b>

**YAP1 Blocking Peptide - Additional Information****Gene ID** 10413**Application & Usage**

**The peptide is used for blocking the antibody activity of YAP1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

**Other Names**

Transcriptional coactivator YAP1, Yes-associated protein 1, Protein yorkie homolog, Yes-associated protein YAP65 homolog, YAP1, YAP65

**Target/Specificity**

YAP1

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

YAP1 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

**YAP1 Blocking Peptide - 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:<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).

#### 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).

### YAP1 Blocking Peptide - 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](#)

## **YAP1 Blocking Peptide - Images**