

Cat No: Kab09560

Product Particulars: anti-YAP1-antibody

Pack Size: 100µg

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Purify: Immunogen affinity purified

Host: Rabbit

Isotype: IgG

Storage: PBS with 0.02% sodium azide and 50% glycerol pH 7.3 , -20°C for 24 months (Avoid repeated freeze / thaw cycles.)

Background (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). 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).

Isoform 2: Isoform 2 and isoform 3 can activate the C- terminal fragment (CTF) of ERBB4 (isoform 3).

Immunogen: Yes-associated protein 1, 65kDa

Synonyms: 65 kDa Yes associated protein, YAP, YAP1, YAP2, YAP65, YKI, Yorkie homolog

Calculated MW: 54kDa, Observed 69kDa

Uniprot ID: P46937

Specificity: Human, Mouse ,Zebrafish

Tested Application: ELISA,IHC,FC,IF,IP,WB

Recommended Dilution: WB:1:500-1:5000;IHC:1:50-1:200;IF:1:20-1:200;IP:1:200-1:2000

Gene ID: 10413

Gene Location: Cytoplasm,Nucleus

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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