

YAP1 Rabbit mAb

Catalog No: #52660

Package Size: #52660-1 50ul #52660-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

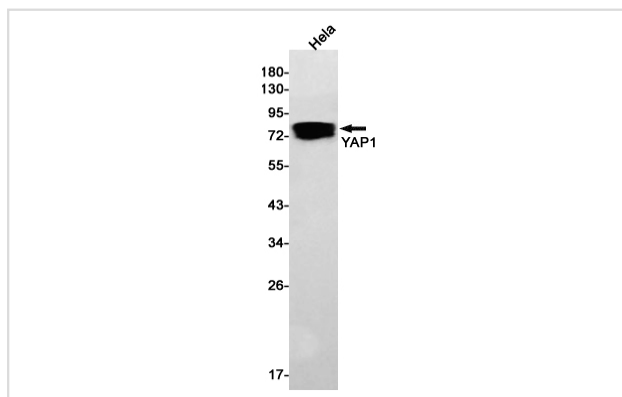
Description

Product Name	YAP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S06-5E9
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IF
Species Reactivity	Human,Mouse
Immunogen Description	A synthetic peptide of human YAP1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	YAP; YKI; COB1; YAP2; YAP65
Accession No.	Swiss-Prot:P46937GenelD:
Uniprot	P46937
Calculated MW	Calculated MW: 55 kDa; Observed MW: 70-75 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000; ICC/IF: 1/100

Images



Western blot detection of YAP1 in HeLa cell lysates using YAP1 Rabbit mAb(1:1000 diluted).Predicted band size:55kDa.Observed band size:70-75kDa.

Background

Swiss-Prot Acc.P46937.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).

Note: This product is for in vitro research use only