For Research Use Only

YAP1 Monoclonal antibody

Catalog Number:66900-1-lg

Featured Product





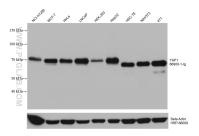
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 66900-1-lg BC038235 Protein G purification GeneID (NCBI): CloneNo.: Size: 150ul , Concentration: 1000 ug/ml by 10413 3A7A9 Nanodrop: UNIPROT ID: Recommended Dilutions: Source P46937 WB 1:5000-1:50000 IHC 1:1000-1:4000 Mouse Full Name: IF/ICC 1:400-1:1600 Isotype Yes-associated protein 1, 65kDa lgG1 Calculated MW: Immunogen Catalog Number: 504 aa, 54 kDa AG28194 **Observed MW:** 65-75 kDa **Tested Applications:** Positive Controls: **Applications** WB, IHC, IF/ICC, ELISA WB: NCI-H1299 cells, HUVEC cells, HeLa cells, HSC-T6 **Cited Applications:** cells, NIH/3T3 cells, MCF-7 cells, LNCaP cells, HEK-293 WB, IHC, IF, IP, CoIP cells, HepG2 cells, NIH-3T3 cells, 4T1 cells **Species Specificity:** IHC : human lung cancer tissue, human colon cancer human, mouse, rat tissue, human liver cancer tissue, human ovary tumor tissue **Cited Species:** human, mouse, rat, sheep IF/ICC : HepG2 cells, Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Yes-associated protein 1 (YAP1) is a transcriptional regulator which can act both as a coactivator and a corepressor **Background Information** 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 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 and isoform 3 can activate the C-terminal fragment (CTF) of ERBB4 (isoform 3).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). Phosphorylation of S381 primes YAP phosphorylation by $CK1\delta/\epsilon$, resulting in activation of a phosphodegron, thus generates a binding surface that interacts with a ubiquitin ligase, and leads to degradation by ubiquitination. (PMID: 20048001). The calcualted molecular weight of YAP1 is 54 kDa, but routinely observed at 65-75 kDa by Western Blot (PMID: 28230103, 33264286, 36255405). **Notable Publications** Author Pubmed ID Journal Application Lei Hong 34692767 Front Mol Biosci WB WB,IF Mengiie Li 34845376 Oncogene IHC, IF Jer-Hwa Chang 34852269 Chem Biol Interact Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

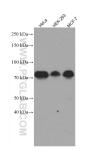
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

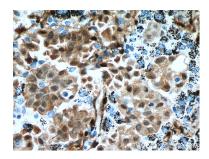
Selected Validation Data



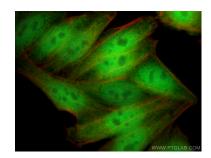
Various lysates were subjected to SDS PAGE followed by western blot with 66900-1-Ig (YAP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Various lysates were subjected to SDS PAGE followed by western blot with 66900-1-lg (YAP1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66900-1-Ig (YAP1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using YAP1 antibody (66900-1-lg, Clone: 3A7A9) at dilution of 1:800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red).