

Rabbit YAP Polyclonal Antibody | anti-YAP antibody

Phospho-YAP (Ser941) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31298	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

YAP; Polyclonal Antibody; Phospho-YAP (Ser941) Antibody; 65kDa Yes associated protein; 65kDa Yes-associated protein; COB1; Yap 1; YAP 65; YAP-1; YAP1; YAP1_HUMAN; YAP2; YAP65; yes -associated protein delta; Yes associated protein 1 65kDa; Yes associated protein 1; Yes associated protein 2; yes associated protein beta; YKI; Yorkie homolog; anti-YAP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-YAP (Ser941) Antibody detects endogenous levels of YAP only when phosphorylated at Ser941. Tissue Specificity: 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).
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-YAP antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 IF/ICC: 1:100-1:500 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human YAP around the phosphorylation site of Ser941.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by LATS1 and LATS2; leading to cytoplasmic translocation and inactivation. Phosphorylated by ABL1; leading to YAP1 stabilization, enhanced interaction with TP73 and recruitment onto proapoptotic genes; in response to DNA damage. Phosphorylation at Ser-400 and Ser-403 by CK1 is triggered by previous phosphorylation at Ser-397 by LATS proteins and leads to YAP1 ubiquitination by SCF (beta-TRCP) E3 ubiquitin ligase and subsequent degradation. Phosphorylated at Thr-119, Ser-138, Thr-154, Ser-367 and Thr-412 by MAPK8/JNK1 and MAPK9/JNK2, which is required for the regulation of apoptosis by YAP1. Ubiquitinated by SCF (beta-TRCP) E3 ubiquitin ligase.
Subunit Structure	Binds to the SH3 domain of the YES kinase. Binds to WBP1 and WBP2. Binds, in vitro, through the WW1 domain, to neural isoforms of ENAH that contain the PPSY motif (By similarity). The phosphorylated form interacts with YWHAB. Interacts (via WW domains) with LATS1 (via PPxY motif 2). Interacts with LATS2. Isoform 2 and isoform 3 interact (via WW domain 1) with isoform 3 of ERBB4 (via PPxY motif 2). Interacts with TEAD1, TEAD2, TEAD3 and TEAD4. Interacts with TP73. Interacts with RUNX1. Interacts with HCK. Interacts (via WW domains) with PTPN14 (via PPxY motif 2); this interaction leads to the cytoplasmic sequestration of YAP1 and inhibits its transcriptional coactivator activity.

Similarity	The first coiled-coil region mediates most of the interaction with TEAD transcription factors.Belongs to the YAP1 family.
Subcellular Location	Cytoplasm. Nucleus. Note: Both phosphorylation and cell density can regulate its subcellular localization. Phosphorylation sequesters it in the cytoplasm by inhibiting its translocation into the nucleus. At low density, predominantly nuclear and is translocated to the cytoplasm at high density (PubMed:18158288, PubMed:20048001). PTPN14 induces translocation from the nucleus to the cytoplasm (PubMed:22525271).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI (blue).



IHC (Immunohistochemistry)

At 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-YAP antibody

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. 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 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. 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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	194306653
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NCBI GeneID	10413
NCBI Accession #	NP_001123617.1
NCBI GenBank Nucleotide #	NM_001130145.2
UniProt Accession #	P46937; Q7Z574; Q8IU9; B4DTY1
Molecular Weight	54,462 Da
NCBI Official Full Name	yorkie homolog isoform 1
NCBI Official Synonym Full Names	Yes-associated protein 1
NCBI Official Symbol	YAP1
NCBI Official Synonym Symbols	YAP; YKI; YAP2; YAP65
NCBI Protein Information	yorkie homolog; yes-associated protein 2; yes-associated protein beta; yes-associated protein delta; 65 kDa Yes-associated protein
UniProt Protein Name	Yorkie homolog
UniProt Gene Name	YAP1
UniProt Synonym Gene Names	YAP65; YAP65
UniProt Entry Name	YAP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/yap-antibody-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31298>