

Product datasheet

Anti-YAP1 antibody ab81183

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Overview

Product name	Anti-YAP1 antibody
Description	Rabbit polyclonal to YAP1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IHC - Wholmount
Species reactivity	Reacts with: Human, Zebrafish Predicted to work with: Mouse, Rat, Sheep, Rabbit, Horse, Chicken, Cow, Cat, Dog, Pig
Immunogen	Synthetic peptide, corresponding to a region within C terminal of Human YAP1, NP_001123617 Run BLAST with ExPASy Run BLAST with NCBI
Positive control	<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> Purchase matching WB positive control: Recombinant Human YAP1 protein > </div> 721_B cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Purification notes	ab81183 is purified by a peptide affinity chromatography method.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab81183** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.
IHC - Wholemout	★★★★☆	Use at an assay dependent concentration.

Target

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. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, 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).

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).

Sequence similarities

Belongs to the YORKIE family.
Contains 2 WW domains.

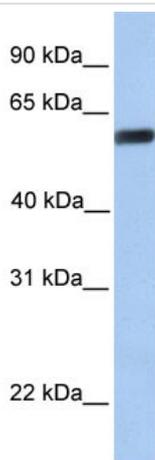
Post-translational modifications

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.

Cellular localization

Cytoplasm. Nucleus. 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.

Images



Western blot - Anti-YAP1 antibody (ab81183)

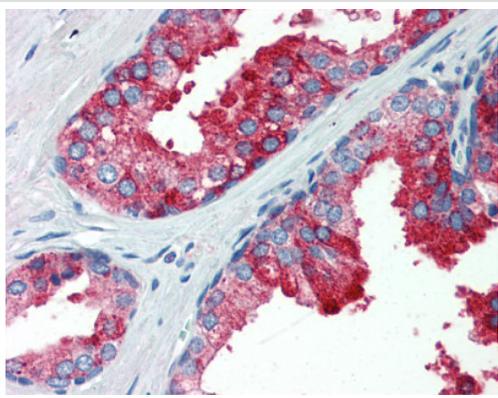
Anti-YAP1 antibody (ab81183) at 1 μ g/ml +
721_B cell lysate at 10 μ g

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000
dilution

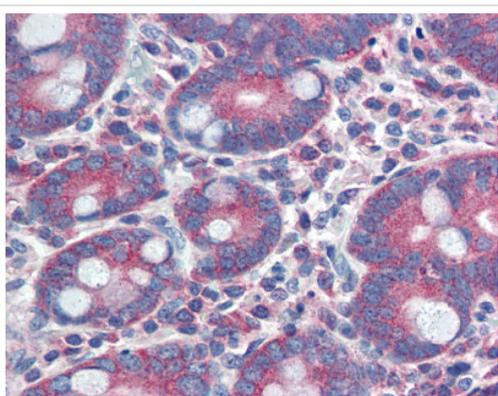
Predicted band size: 54 kDa

Observed band size: 54 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-YAP1 antibody (ab81183)

ab81183 at 5 μ g/ml staining YAP1 in Human
prostate tissue by Immunohistochemistry
(Formalin/PFA-fixed paraffin-embedded
sections).



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-YAP1 antibody (ab81183)

ab81183 at 5 μ g/ml staining YAP1 in Human
small intestine tissue by Immunohistochemistry
(Formalin/PFA-fixed paraffin-embedded
sections).

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