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Product datasheet

Anti-YAP1 (phospho Y357) antibody ab62751

1 Abreviews 47 References 1 Image

Overview

Product name	Anti-YAP1 (phospho Y357) antibody
Description	Rabbit polyclonal to YAP1 (phospho Y357)
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Horse, Chicken, Cow, Dog, Xenopus laevis, Chimpanzee, Zebrafish, Opossum
Immunogen	Synthetic peptide corresponding to Human YAP1 aa 350-450 (C terminal) (phospho Y357) conjugated to keyhole limpet haemocyanin. Database link: **P46937** Run BLAST with Run BLAST with
Positive control	HEK-293T cells co-transfected with human YAP1 and human c-Abl.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
Purity	Immunogen affinity purified
Purification notes	ab62751 was affinity-purified using the immunizing peptide immobilized on agarose.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab62751 in the following tested applications.

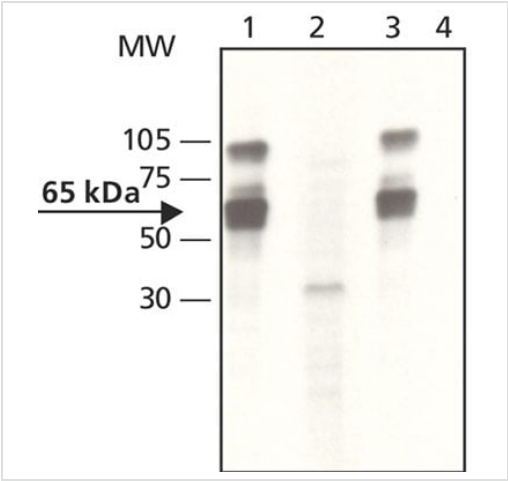
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).
ICC/IF	★★★★☆ (1)	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 (phospho Y357) antibody (ab62751)

All lanes : Anti-YAP1 (phospho Y357) antibody (ab62751) at 1/2000 dilution

Lane 1 : Whole cell lysates of HEK-293T cells co-transfected with human YAP1 and human c-Abl
Lane 2 : Whole cell lysates of untransfected HEK-293T cells
Lane 3 : Whole cell lysates of HEK-293T cells co-transfected with human YAP1 and human c-Abl with YAP1 peptide (human 351-362) at 20 µg/ml
Lane 4 : Whole cell lysates of HEK-293T cells co-transfected with human YAP1 and human c-Abl with phospho-YAP1 (human 351-362 [phospho Y357]) immunizing peptide at 20 µg/ml

Secondary
All lanes : Goat Anti-Rabbit IgG, Peroxidase conjugate

Predicted band size: 65 kDa
Observed band size: 65 kDa
Additional bands at: 100 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

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