YAP (H-9): sc-271134

BACKGROUND

The Yes-associated protein, otherwise known as YAP, is a 14-3-3 binding molecule that was originally recognized by virtue of its ability to bind to the SH3 domain of Nck protein. The binding of YAP to 14-3-3 requires the phosphorylation of a homologous serine residue (Ser112) in the YAP 14-3-3 binding motif. The highly conserved and ubiquitously expressed 14-3-3 proteins regulate the phosphoproteins involved in signal transduction. YAP may link events at the plasma membrane and cytoskeleton to inhibition of transcription in the nucleus in a manner regulated by 14-3-3 proteins. YAP shares homology with the WW domain of TAZ, transcriptional co-activator with PDZ-binding motif, which functions as a transcriptional co-activator by binding to the PPXY motif present in transcription factors. YAP is expressed at high levels in the lung, placenta, prostate, ovary and testis.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: YAP1 (human) mapping to 11q13.1; Yap1 (mouse) mapping to 9 A1.

SOURCE

YAP (H-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 379-407 near the C-terminus of YAP of human origin.

PRODUCT

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-271134 X, 200 µg/0.1 ml.

YAP (H-9) is available conjugated to either Alexa Fluor® 546 (sc-271134 AF546) or Alexa Fluor® 680 (sc-271134 AF680) or Alexa Fluor® 790 (sc-271134 AF790), 200 µg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 546 (sc-271134 AF546) or Alexa Fluor® 680 (sc-271134 AF680) or Alexa Fluor® 790 (sc-271134 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-271134 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

YAP (H-9) is recommended for detection of YAP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for YAP siRNA (h): sc-38637, YAP siRNA (m): sc-38638, YAP shRNA Plasmid (h): sc-38637-SH, YAP shRNA Plasmid (m): sc-38638-SH, YAP shRNA (h) Lentiviral Particles: sc-38637-V and YAP shRNA (m) Lentiviral Particles: sc-38638-V.

YAP (H-9) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of YAP: 65 kDa.
Positive Controls: Hep G2 cell lysate: sc-2227, NIH/3T3 whole cell lysate: sc-2210 or C6 whole cell lysate: sc-384373.

DATA

APPLICATIONS

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SELECT PRODUCT CITATIONS


RESEARCH USE

For research use only, not for use in diagnostic procedures.