

Store at
-20°C

#71491

PhosphoPlus® YAP (Ser397) Antibody Duet



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Entrez-Gene ID #10413
UniProt ID #P46937

New 05/20

For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype
Phospho-YAP (Ser397) (D1E7Y) Rabbit mAb	13619	100 µl	65-78 kDa	Rabbit IgG
YAP (D8H1X) XP® Rabbit mAb	14074	100 µl	65-78 kDa	Rabbit IgG

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions and additional application protocols.

Description: PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

Background: YAP (Yes-associated protein, YAP65) was first identified based on its ability to associate with the SH3 domain of Yes. It also binds to other SH3 domain-containing proteins such as Nck, Crk, Src, and Abl (1). In addition to the SH3 binding motif, YAP contains a PDZ interaction motif, a coiled-coil domain, and WW domains (2-4). While initial studies of YAP all pointed towards a role in anchoring and targeting to specific subcellular compartments, subsequent studies showed that YAP is a transcriptional co-activator by virtue of its WW domain interacting with the PY motif (PPXY) of the transcription factor PEBP2 and other transcription factors (5). In its capacity as a transcriptional co-activator, YAP is now widely recognized as a central mediator of the Hippo Pathway, which plays a fundamental and widely conserved role in regulating tissue growth and organ size (6-8). Phosphorylation at multiple sites (e.g., Ser109, Ser127) by LATS kinases promotes YAP translocation from the nucleus to the cytoplasm, where it is sequestered through association with 14-3-3 proteins (7-9). These LATS-driven phosphorylation events serve to prime YAP for subsequent phosphorylation by CK1δ/ε in an adjacent phosphodegron, triggering proteosomal degradation of YAP (10).

Specificity/Sensitivity: Phospho-YAP1 (Ser397) (D1E7Y) Rabbit mAb recognizes endogenous levels of YAP protein only when phosphorylated at Ser397. YAP (D8H1X) XP® Rabbit mAb recognizes endogenous levels of YAP protein.

Source/Purification: Phospho-YAP (Ser397) (D1E7Y) Rabbit mAb is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser397 of human YAP protein. YAP (D8H1X) XP® Rabbit mAb is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human YAP protein. The epitope corresponds to a region surrounding Pro435 of human YAP isoform 1. This region is 100% conserved among all reported isoforms of human YAP protein.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

- (1) Sudol, M. (1994) *Oncogene* 9, 2145-52.
- (2) Mohler, P.J. et al. (1999) *J Cell Biol* 147, 879-90.
- (3) Espanel, X. and Sudol, M. (2001) *J Biol Chem* 276, 14514-23.
- (4) Sudol, M. et al. (1995) *FEBS Lett* 369, 67-71.
- (5) Yagi, R. et al. (1999) *EMBO J* 18, 2551-62.
- (6) Dong, J. et al. (2007) *Cell* 130, 1120-33.
- (7) Zhao, B. et al. (2010) *Genes Dev* 24, 862-74.
- (8) Zhao, B. et al. (2007) *Genes Dev* 21, 2747-61.
- (9) Yu, F.X. et al. (2012) *Cell* 150, 780-91.
- (10) Zhao, B. et al. (2010) *Genes Dev* 24, 72-85.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected *Species enclosed in parentheses are predicted to react based on 100% homology.*