

# Phospho-YAP (Ser127) Antibody

✓ 100 µl  
(10 western blots)

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignal.com  
**Support** ■ 877-678-TECH (8324)  
info@cellsignal.com  
**Web** ■ www.cellsignal.com

rev. 12/30/10

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IHC-P Endogenous	H, M, R, (Mk, B)	65-75 kDa	Rabbit**

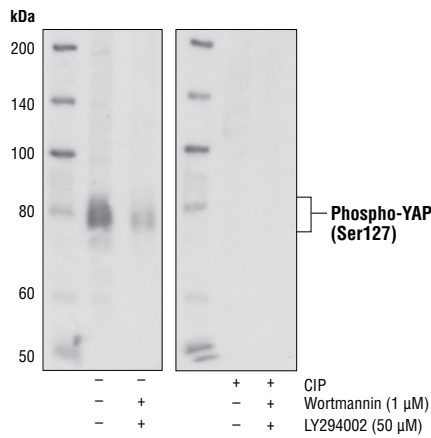
**Background:** YAP (Yes-associated protein, YAP65) was identified based on its ability to associate with the SH3 domain of Yes. It also binds to other SH3 domain containing proteins such as Nck, Crk, Src and Abl (1). In addition to the SH3 binding motif, YAP contains a PDZ interaction motif, a coiled-coil 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 show 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 (5-6). YAP interacts with 14-3-3 in an Akt-dependent manner upon phosphorylation of Ser127 and suppresses p73-mediated apoptosis (6).

**Specificity/Sensitivity:** Phospho-YAP (Ser127) Antibody detects endogenous levels of YAP only when phosphorylated at Ser127.

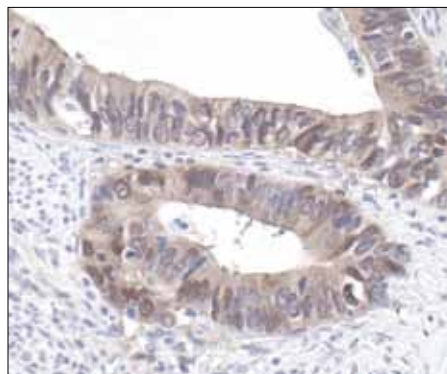
**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser127 of human YAP. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

- (1) Sudol, M. (1994) *Oncogene* 9, 2145-2152.
- (2) Mohler, P. et al. (1999) *J. Cell Biol.* 147, 879-890.
- (3) Espanel, X. and Sudol, M. (2001) *J. Biol. Chem.* 276, 14514-14523.
- (4) Sudol, M. et al. (1995) *FEBS Lett.* 369, 67-71.
- (5) Yagi, R. et al. (1999) *EMBO J.* 18, 2551-2562.
- (6) Basu, S. et al. (2003) *Mol. Cell* 11, 11-23.



Western blot analysis of extracts from MDA-MB-468 cells, untreated or treated with wortmannin and LY294002 using Phospho-YAP (Ser127) Antibody. The phospho-specificity of the antibody was verified by treating the membrane with (+) or without (-) calf intestinal phosphatase (CIP) after western transfer.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma, showing cytoplasmic and nuclear localization using Phospho-YAP (Ser127) Antibody.

Entrez-Gene ID # 10413  
Swiss-Prot Acc. # P46937

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

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

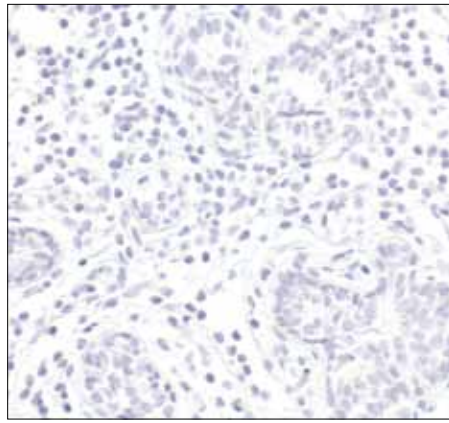
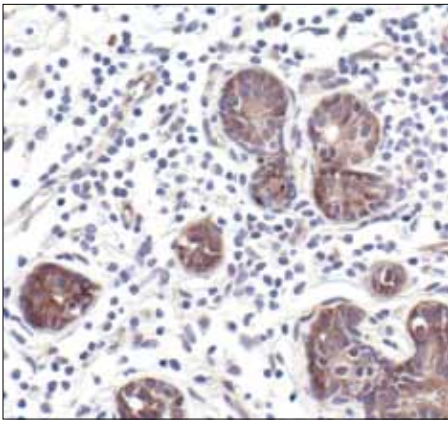
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:200
Unmasking buffer:	Citrate
Antibody diluent:	TBST-5%NGS

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

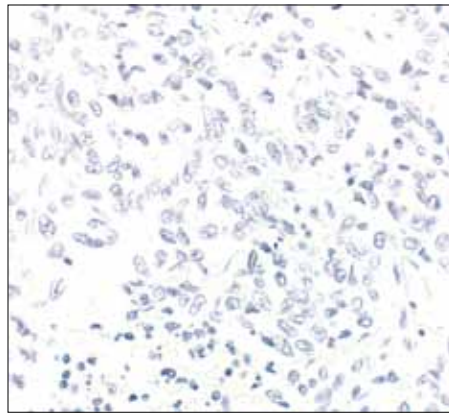
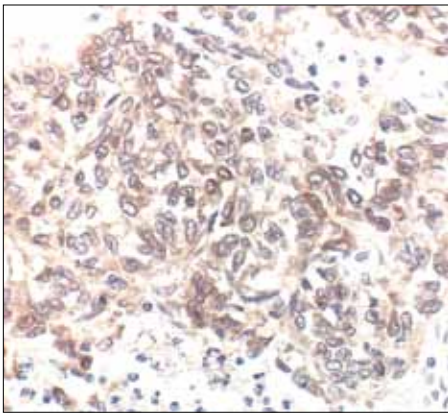
Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** 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.



*Immunohistochemical analysis of paraffin-embedded human breast carcinoma using Phospho-YAP (Ser127) Antibody in the presence of control peptide (left) or antigen specific peptide (right).*



*Immunohistochemical analysis of paraffin-embedded human lung carcinoma control (left) or  $\lambda$  phosphatase-treated (right) using Phospho-YAP (Ser127) Antibody*