Phospho-YAP (Ser127) (D9W2I) Rabbit mAb

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**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 Abi (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 (5,6). Upon phosphorylation at Ser127, YAP interacts with 14-3-3 in an Akt-dependent manner and suppresses p73-mediated apoptosis (6).

**Specificity/Sensitivity:** Phospho-YAP (Ser127) (D9W2I) Rabbit mAb recognizes endogenous levels of YAP protein only when phosphorylated at Ser127. This antibody may cross-react with phospho-TAZ (Ser89).

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser127 of human YAP protein.

**Background References:**

**Recommended Antibody Dilutions:**
- Western blotting 1:1000
- Immunoprecipitation 1:200
- Immunohistochemistry (Paraffin) 1:1250†

**Unmasking buffer:** Citrate
**Antibody diluent:** SignalStain® Antibody Diluent #8112
**Detection reagent:** SignalStain® Boost (HRP, Rabbit) #8114
†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

For product specific protocols please see the web page for this product at www.cellsignal.com. Please visit www.cellsignal.com for a complete listing of recommended companion products.
Immunohistochemical analysis of paraffin-embedded human colon adenocarcinoma, control (left) or λ-phosphatase treated (right), using Phospho-YAP (Ser127) (D9W2I) Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded cell pellets, A-204 (left) and RL-7 (right), using Phospho-YAP (Ser127) (D9W2I) Rabbit mAb.

Western blot analysis of extracts from various cell lines using Phospho-YAP (Ser127) (D9W2I) Rabbit mAb.

Western blot analysis of MDA-MB-231 cells, vehicle-treated (-) or treated with Forskolin #3828 (10 μM, 60 min; +) or epinephrine (10 μM, 60 min; +), using Phospho-YAP (Ser127) (D9W2I) Rabbit mAb (upper), YAP Antibody #4912 (middle), and β-Actin (D6A8) Rabbit mAb #8457 (lower). Note the induction of YAP (Ser127) phosphorylation after treatment with forskolin or epinephrine, consistent with the findings reported in Xu et al. (2012) [9].