

Store at  
-20C  
#15028**YAP (D8H1X) XP<sup>®</sup> Rabbit mAb (HRP Conjugate)**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Hm Mk	Endogenous	65-78	Rabbit IgG	#P46937	10413

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.

**Specificity/Sensitivity**

YAP (D8H1X) XP<sup>®</sup> Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total YAP protein.

**Species predicted to react based on 100% sequence homology**

Bovine, Horse, Guinea Pig

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with 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 sequence region is 100% conserved among all known isoforms of human YAP protein.

**Description**

This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody YAP (D8H1X) XP<sup>®</sup> Rabbit mAb #14074.

**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 proteasomal degradation of YAP (10).

**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.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

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

**Applications Key**

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey

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