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YAP (D8H1X) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)


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Applications: IF-IC, FC-FP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P46937	Entrez-Gene Id: 10413
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Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:200 - 1:800 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity / Sensitivity	YAP (D8H1X) XP® Rabbit mAb (Alexa Fluor® 488 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.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated YAP (D8H1X) XP® Rabbit mAb #14074.	
Background	<p>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).</p>	
Background References	<ol style="list-style-type: none"> 1. Sudol, M. (1994) <i>Oncogene</i> 9, 2145-52. 2. Mohler, P.J. et al. (1999) <i>J Cell Biol</i> 147, 879-90. 3. Espanel, X. and Sudol, M. (2001) <i>J Biol Chem</i> 276, 14514-23. 4. Sudol, M. et al. (1995) <i>FEBS Lett</i> 369, 67-71. 5. Yagi, R. et al. (1999) <i>EMBO J</i> 18, 2551-62. 6. Dong, J. et al. (2007) <i>Cell</i> 130, 1120-33. 7. Zhao, B. et al. (2010) <i>Genes Dev</i> 24, 862-74. 8. Zhao, B. et al. (2007) <i>Genes Dev</i> 21, 2747-61. 9. Yu, F.X. et al. (2012) <i>Cell</i> 150, 780-91. 10. Zhao, B. et al. (2010) <i>Genes Dev</i> 24, 72-85. 	

Species Reactivity

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

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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