

#29495 Store at -20C

Non-phospho (Active) YAP (Ser127) (E6U8Z) Rabbit mAb



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

Product Usage Information	Application Western Blotting	Dilution 1:1000
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.	
Specificity / Sensitivity	Non-phospho (Active) YAP (Ser127) (E6U8Z) Rabbit mAb recognizes endogenous YAP protein only when Ser127 is not phosphorylated. This antibody does not appear to react with TAZ.	
Species predicted to react based on 100% sequence homology:	Mouse, Rat, Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser127 of human YAP protein.	
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	<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).
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	WB: Western Blotting
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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