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Phospho-YAP/TAZ Antibody Sampler Kit



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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-YAP (Ser127) (D9W2I) Rabbit mAb	13008	20 µl	65-78 kDa	Rabbit IgG
Phospho-YAP (Ser397) (D1E7Y) Rabbit mAb	13619	20 µl	65-78 kDa	Rabbit IgG
Phospho-TAZ (Ser89) (E1X9C) Rabbit mAb	59971	20 µl	55 kDa	Rabbit IgG
YAP/TAZ (D24E4) Rabbit mAb	8418	20 µl	55, 78 kDa	Rabbit IgG
YAP (D8H1X) XP [®] Rabbit mAb	14074	20 µl	65-78 kDa	Rabbit IgG
TAZ (D3I6D) Rabbit mAb	70148	20 µl	50 kDa	Rabbit IgG
Phospho-YAP (Ser109) (E5I9G) Rabbit mAb	53749	20 µl	65-78 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Phospho-YAP/TAZ Antibody Sampler Kit uses phospho-specific and control antibodies to provide an economical means of detecting the phosphorylation of YAP and TAZ proteins at critical residues that are reported to regulate YAP and TAZ protein stability. The kit includes enough antibody to perform two western blot experiments with each primary antibody.

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.

Background

YAP and TAZ (WWTR1) are transcriptional co-activators that play a central role in the Hippo Signaling pathway that regulates cell, tissue and organ growth. YAP and TAZ are structurally and functionally similar, but exhibit differential patterns of expression among cells and tissues that suggest partially non-redundant functions (1). YAP and TAZ are dynamically regulated in response to internal and external cellular signals. Under growth conditions, YAP and TAZ are translocated to the nucleus, where they interact with transcription factors (e.g., TEA domain proteins) that regulate the transcription of genes that control proliferation and cell survival (2). The subcellular localization of YAP and TAZ is dynamically regulated by a kinase cascade that regulates the phosphorylation status of key residues within YAP and TAZ. Phosphorylation of YAP and TAZ (e.g., Ser109, Ser127, Ser397 in YAP; Ser89 in TAZ) results in their cytoplasmic translocation, sequestration by 14-3-3 proteins, and recruitment of the β-TrCP (SCF) ubiquitin ligase complex (3,4). This complex ubiquitinates YAP and TAZ, triggering their proteolytic degradation in the proteasome, thereby altering the transcription of genes that control proliferation and cell survival (3-5).

Background References

1. Piccolo, S. et al. (2014) *Physiol Rev* 94, 1287-312.
2. Holden, J.K. and Cunningham, C.N. (2018) *Cancers (Basel)* 10, .
3. Lei, Q.Y. et al. (2008) *Mol Cell Biol* 28, 2426-36.
4. Zhao, B. et al. (2010) *Genes Dev* 24, 72-85.
5. Cordenonsi, M. et al. (2011) *Cell* 147, 759-72.

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