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#56612

# Hippo Pathway: Upstream Signaling Antibody Sampler Kit



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New 04/18

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Products Included	Product #	Quantity	Mol. Wt.	Isotype/Source
YAP (D8H1X) XP® Rabbit mAb	14074	20 µl	65-75 kDa	Rabbit IgG
TAZ (D3I6D) Rabbit mAb	70148	20 µl	50 kDa	Rabbit IgG
Ajuba (D4D8P) Rabbit mAb	34648	20 µl	55 kDa	Rabbit IgG
PTPN14 (D5T6Y) Rabbit mAb	13808	20 µl	160 kDa	Rabbit IgG
Merlin (D3S3W) Rabbit mAb	12888	20 µl	70 kDa	Rabbit IgG
MST1 (D8B9Q) Rabbit mAb	14946	20 µl	60 kDa	Rabbit IgG
FRMD6 (D8X3R) Rabbit mAb	14688	20 µl	78 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

See [www.cellsignal.com](http://www.cellsignal.com) for individual component applications, species cross-reactivity, dilutions, and additional application protocols.

**Description:** The Hippo Pathway Proteins Antibody Sampler Kit provides an economical means of detecting proteins that have been identified as upstream regulators of the Hippo Signaling Pathway. The kit provides enough antibody to perform two western blot experiments with each primary antibody.

**Background:** The Hippo Signaling Pathway is an evolutionarily conserved signaling cascade that regulates cell, tissue and organ growth in response to diverse environmental cues, including cell density, mechanical stress, growth factors and cytokines, and metabolic signaling (1,2). In mammals, the core components of this pathway are YAP and TAZ, transcriptional co-activators that regulate the expression of target genes that control cell proliferation and survival (3). The transcriptional control of YAP/TAZ target genes is regulated through a complex kinase cascade involving mammalian sterile-20-like kinases (MST1/2), LATS1/2 kinases and key adaptor proteins. Phosphorylation of YAP and TAZ by LATS kinases results in cytoplasmic sequestration of YAP and TAZ, inhibiting transcriptional activation of their target genes. A number of proteins have been identified that function upstream of MST1/2 and LATS1/2 to influence LATS-mediated phosphorylation of YAP/TAZ. These include the tumor suppressor protein Merlin (4), the FERM-domain containing protein 6 (FRMD6/Willin) (5), the LIM-domain containing adaptor protein Ajuba (6,7), and the protein tyrosine phosphatase PTPN14 (8).

#### Background References:

- (1) Meng, Z. et al. (2016) *Genes Dev* 30, 1-17.
- (2) Watt, K.I. et al. (2017) *Front Physiol* 8, 942.
- (3) Fu, V. et al. (2017) *Curr Opin Cell Biol* 49, 99-107.
- (4) Su, T. et al. (2017) *Dev Cell* 40, 478-490.
- (5) Angus, L. et al. (2012) *Oncogene* 31, 238-50.
- (6) Das Thakur, M. et al. (2010) *Curr Biol* 20, 657-62.
- (7) Reddy, B.V. and Irvine, K.D. (2013) *Dev Cell* 24, 459-71.
- (8) Liu, X. et al. (2013) *Oncogene* 32, 1266-73.

**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.

**For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com)**

**Specificity/Sensitivity:** Each antibody in the Hippo Pathway Proteins Antibody Sampler Kit detects endogenous levels of its target protein.

**Source/Purification:** Monoclonal antibodies are produced by immunizing animals with synthetic peptides corresponding to residues surrounding Ala200 of mouse TAZ, Phe608 of human FRMD6, Leu737 of human PTPN14, Gln470 of human merlin, Arg77 of human Ajuba, Pro9 of human MST1, and recombinant protein corresponding to the carboxy terminus of human YAP protein. The sequence region surrounding the YAP epitope is 100% conserved among all known isoforms of YAP.

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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected **Species enclosed in parentheses are predicted to react based on 100% homology.**