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Hippo Pathway: Upstream Signaling Antibody Sampler Kit



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1 Kit (7 x 20 microliters)

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
YAP (D8H1X) XP [®] Rabbit mAb	14074	20 µl	65-78 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

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

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.

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

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

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