

IWS1 Antibody



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #Q96ST2	Entrez-Gene Id: 55677
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

IWS1 Antibody detects endogenous levels of total IWS1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human IWS1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Various steps in gene expression, such as mRNA processing, surveillance, export, and synthesis are coupled to transcription elongation (1,2). The C-terminal domain (CTD) of the large subunit of RNA polymerase II plays an important role in the integration of these different steps (1,2). IWS1 interacts with Spt6, a CTD-binding transcription elongation factor and H3 chaperone (1,2). IWS1 also recruits another CTD-binding protein, HYPB/Setd2 histone methyltransferase, to the RNA polymerase II complex for elongation-coupled H3K36 trimethylation (2). Thus, IWS1 links Spt6 and HYPB/Setd2 in a large complex and regulates mRNA synthesis and histone methylation at the co-transcriptional level (2).

Background References

1. Yoh, S.M. et al. (2007) *Genes Dev* 21, 160-74.
2. Yoh, S.M. et al. (2008) *Genes Dev* 22, 3422-34.

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

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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