

#5681 Store at -20C

# IWS1 Antibody

**Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

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

## 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

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

## 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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