

For Research Use Only

# IWS1 Polyclonal antibody

Catalog Number: 16943-1-AP

Featured Product

1 Publications



## Basic Information

**Catalog Number:**

16943-1-AP

**Size:**

150ul, Concentration: 450 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG10554

**GenBank Accession Number:**

BC017012

**GeneID (NCBI):**

55677

**UNIPROT ID:**

Q96ST2

**Full Name:**

IWS1 homolog (S. cerevisiae)

**Calculated MW:**

819 aa, 92 kDa

**Observed MW:**

116-120 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

ChIP

**Species Specificity:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293 cells, human brain tissue, mouse brain tissue, rat brain tissue, HeLa cells, Jurkat cells

**IP:** mouse brain tissue,

**IHC:** mouse lung tissue,

**IF/ICC:** HEK-293 cells,

## Background Information

IWS1, as a transcription elongation factor, functions to recruit cofactors to the RNA polymerase II (RNAPII) complex to regulate mRNA alternative splicing (PMID: 30846735; 37237004). It plays a key role in defining the composition of the RNA polymerase II (RNAPII) elongation complex and in modulating the production of mature mRNA transcripts. It also acts as an assembly factor to recruit various factors to the RNAPII elongation complex and is recruited to the complex via binding to the transcription elongation factor SUPT6H bound to the C-terminal domain (CTD) of the RNAPII subunit RPB1 (POLR2A). The SUPT6H:IWS1:CTD complex recruits mRNA export factors (ALYREF/THOC4, EXOSC10) as well as histone modifying enzymes (such as SETD2) to ensure proper mRNA splicing, efficient mRNA export and elongation-coupled H3K36 methylation, a signature chromatin mark of active transcription (PMID: 17184735; 17234882; 19141475).

## Notable Publications

Author	Pubmed ID	Journal	Application
Annabelle Gérard	25590759	Cell Host Microbe	ChIP

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

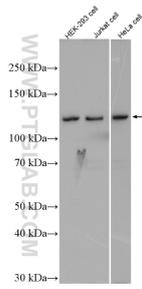
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

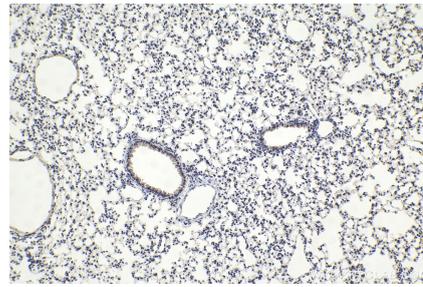
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

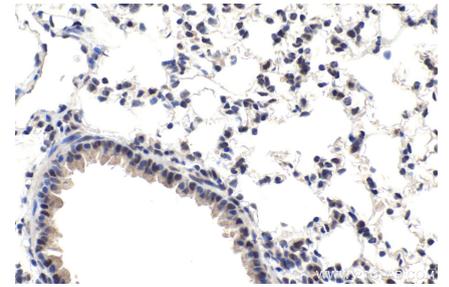
## Selected Validation Data



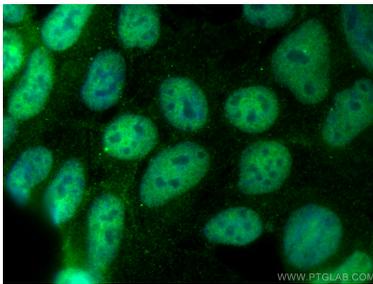
Various lysates were subjected to SDS PAGE followed by western blot with 16943-1-AP (IWS1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



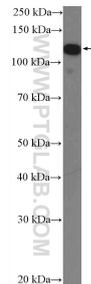
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 16943-1-AP (IWS1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



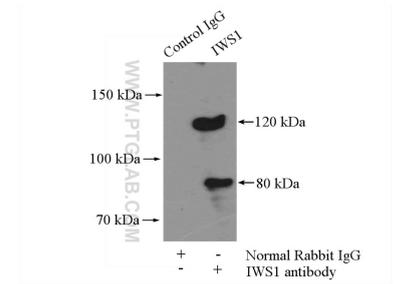
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 16943-1-AP (IWS1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using IWS1 antibody (16943-1-AP) at dilution of 1:400 and CoralLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



HeLa cells were subjected to SDS PAGE followed by western blot with 16943-1-AP (IWS1 Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-IWS1 (IP:16943-1-AP, 4ug; Detection:16943-1-AP 1:500) with mouse brain tissue lysate 4000ug.