

For Research Use Only

# NSD3 Polyclonal antibody

Catalog Number: 11345-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

11345-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1894

### GenBank Accession Number:

BC012059

### GeneID (NCBI):

54904

### UNIPROT ID:

Q9BZ95

### Full Name:

Wolf-Hirschhorn syndrome candidate 1-like 1

### Calculated MW:

1437 aa, 162 kDa

### Observed MW:

160-170 kDa, 68-72 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

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

IHC: 1:400-1:1600

IF/ICC: 1:200-1:800

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB: HeLa cells, HEK-293 cells, rat heart tissue, mouse heart tissue

IP: HeLa cells,

IHC: human lung squamous cell carcinoma tissue,

IF/ICC: MCF-7 cells,

FC (Intra): NIH/3T3 cells,

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

## Background Information

WHSC1L1, also named as NSD3 and DC28, belongs to the histone-lysine methyltransferase family and SET2 subfamily. It is histone methyltransferase. WHSC1L1 is a potentially transforming oncogenes based on the number of altered phenotypes expressed by the cells. It contains a PWWP-domain that is a methyl-lysine recognition motif involved in histone code modification and epigenetic regulation of gene expression. Knockdown of WHSC1L1 in 8p11-12-amplified breast cancer cells resulted in profound loss of growth and survival of these cells. (PMID: 20940404). This antibody recognize the long isoform (160-170 kDa) and short isoform (68-72 kDa).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ga-Young Jeong	32967925	Cancer Res	IHC
Verónica García-Carpizo	27604143	Sci Rep	
Duo Xu	36291782	Cancers (Basel)	IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

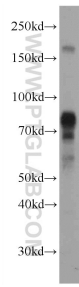
For technical support and original validation data for this product please contact:

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

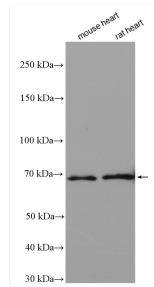
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

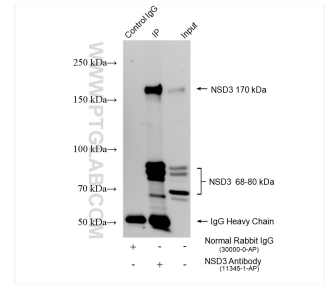
## Selected Validation Data



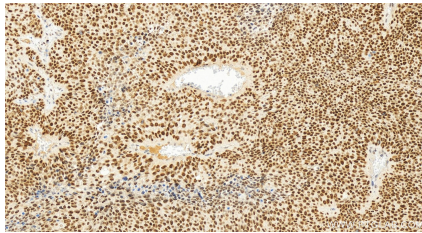
HeLa cells were subjected to SDS PAGE followed by western blot with 11345-1-AP (NSD3 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



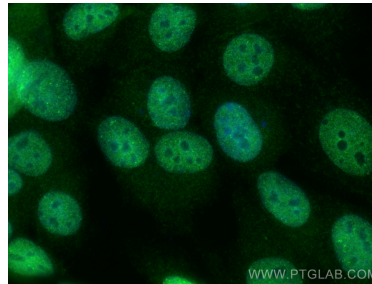
Various lysates were subjected to SDS PAGE followed by western blot with 11345-1-AP (NSD3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



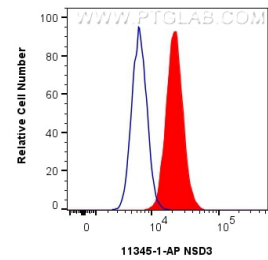
IP result of anti-NSD3 (IP:11345-1-AP, 4ug; Detection:11345-1-AP 1:600) with HeLa cells lysate 1085 ug.



Immunohistochemical analysis of paraffin-embedded human lung squamous cell carcinoma tissue slide using 11345-1-AP (NSD3 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using NSD3 antibody (11345-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



$1 \times 10^6$  NIH/3T3 cells were intracellularly stained with 0.25 ug NSD3 Polyclonal antibody (11345-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).