For Research Use Only

NSD3 Polyclonal antibody

Catalog Number:11345-1-AP Featured Product 15 Publications

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Basic Information

Catalog Number:
11345-1-AP

Size:
150ul , Concentration: 550 µg/ml by Nanodrop and 320 µg/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 1:20-1:200
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, chIP, IF

Species Specificity:
human, mouse, rat

Cited Species:
human

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

IP : HeLa cells,

IHC : human lymphoma tissue,

IF/ICC : HeLa cells, MCF-7 cells

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 potently 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

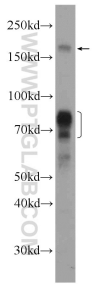
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

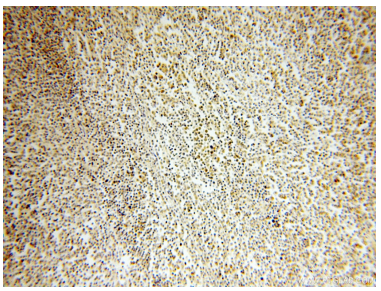
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

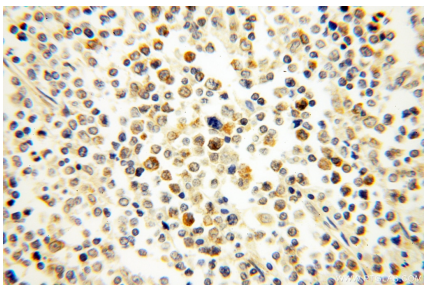
Selected Validation Data



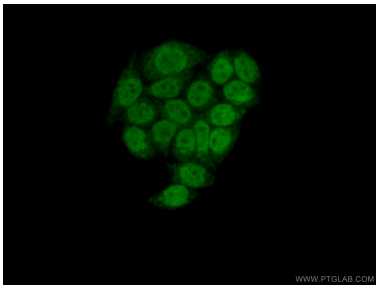
HeLa cells were subjected to SDS PAGE followed by western blot with 11345-1-AP (NSD3 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



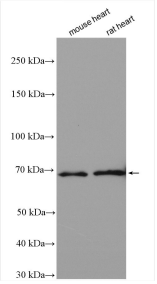
Immunohistochemical analysis of paraffin-embedded human lymphoma using 11345-1-AP (NSD3 antibody) at dilution of 1:50 (under 10x lens).



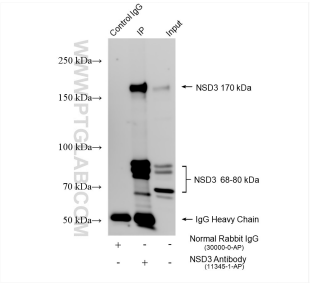
Immunohistochemical analysis of paraffin-embedded human lymphoma using 11345-1-AP (NSD3 antibody) at dilution of 1:50 (under 40x lens).



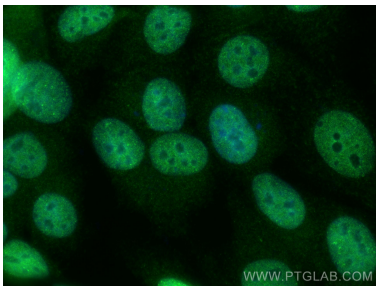
Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 11345-1-AP (NSD3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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.



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).