

NSD3 Recombinant antibody

Catalog Number: 83116-1-RR

Basic Information

Catalog Number: 83116-1-RR	GenBank Accession Number: BC012059	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 54904	CloneNo.: 230499C5
Source: Rabbit	UNIPROT ID: Q9BZ95	Recommended Dilutions: IHC 1:200-1:800 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: Wolf-Hirschhorn syndrome candidate 1-like 1	
Immunogen Catalog Number: AG1894	Calculated MW: 1437 aa, 162 kDa	

Applications

Tested Applications: IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	IHC : human lung squamous cell carcinoma tissue, IF/ICC : MCF-7 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

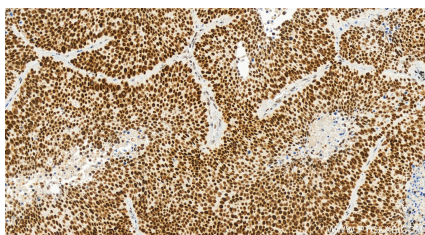
Background Information

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).

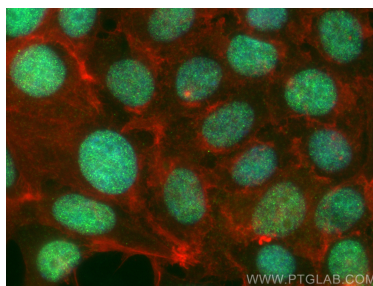
Storage

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

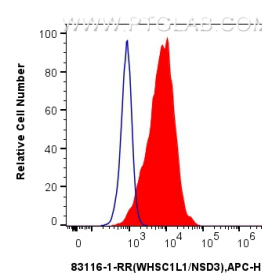
Selected Validation Data



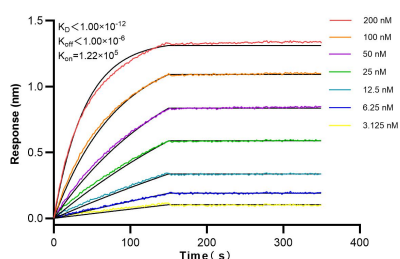
Immunohistochemical analysis of paraffin-embedded human lung squamous cell carcinoma tissue slide using 83116-1-RR (NSD3 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using NSD3 antibody (83116-1-RR, Clone: 230499C5) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g Anti-Human NSD3 (83116-1-RR, Clone: 230499C5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83116-1-RR against Human NSD3 were performed. The affinity constant is below 1 pM.