

For Research Use Only

# SETD2 Polyclonal antibody

Catalog Number: 55377-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

55377-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_014159

### GeneID (NCBI):

29072

### UNIPROT ID:

Q9BYW2

### Full Name:

SET domain containing 2

### Calculated MW:

288 kDa

### Observed MW:

287 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, CoIP

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : Jurkat cells, U2OS cells, K-562 cells

IHC : human colon cancer tissue, human oesophagus cancer tissue

IF/ICC : HepG2 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

SETD2, also named as HIF1, HYPB, KIAA1732, KMT3A, SET2, p231HBP, hSET2 and HIP-1, belongs to the histone-lysine methyltransferase family and SET2 subfamily. It is a histone methyltransferase that methylates 'Lys-36' of histone H3. SETD2 probably plays a role in chromatin structure modulation during elongation via its interaction with hyperphosphorylated POLR2A. It binds DNA at promoters. SETD2 may also act as a transcription activator that binds to promoters.(PMID:16118227) It is a potential tumor suppressor gene in breast cancer.(PMID:20944102) This antibody is specific to SETD2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ruiqiong Liu	29846670	Nucleic Acids Res	WB
Jie Gao	30052810	Carcinogenesis	
Wentao Liu	35081978	J Exp Clin Cancer Res	WB

## 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

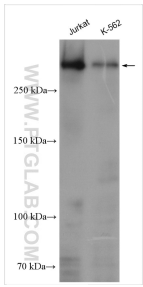
For technical support and original validation data for this product please contact:

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

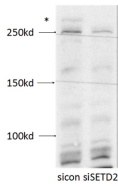
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

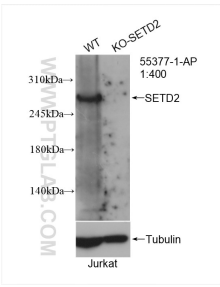
## Selected Validation Data



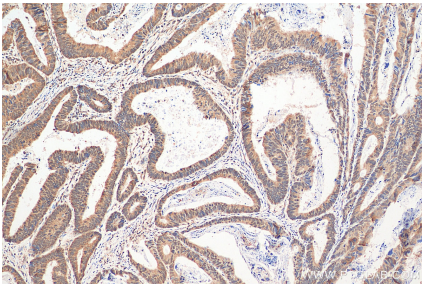
Various lysates were subjected to SDS PAGE followed by western blot with 55377-1-AP (SETD2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



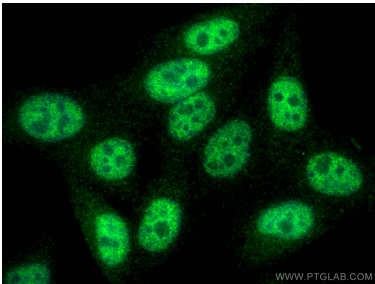
WB result of SETD2 antibody (55377-1-AP, 1:500) with siRNA transfected U2-OS cells.



WB result of SETD2 antibody (55377-1-AP; 1:400; room temperature for 1.5 hours) with wild-type and SETD2 knockout Jurkat cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 55377-1-AP (SETD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SETD2 antibody (55377-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).