SETD2 Polyclonal antibody

Catalog Number: 55377-1-AP

Basic Information

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Size: 150μl, Concentration: 700μg/ml by Nanodrop;

Source: Rabbit

Isotype: IgG

GenBank Accession Number: NM_014159

GeneID (NCBI): 29072

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: 1:20-1:200

Recommended Applications:

Tested Applications: IF, IHC, WB, ELISA

Cited Applications: CoIP, IHC, WB

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: 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

Applications

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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 tumour suppressor gene in breast cancer.(PMID:20944102) This antibody is specific to SETD2.

Notable Publications

Author | PubMed ID | Journal | Application
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Ruiqiong Liu | 29846670 | Nucleic Acids Res | WB
Jie Gao | 30052810 | Carcinogenesis | WB
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

***20μl 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 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.

Immunofluorescent analysis of HepG2 cells using 55377-1-AP (SETD2 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.

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).