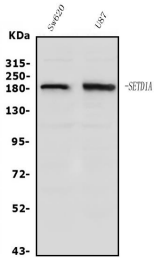
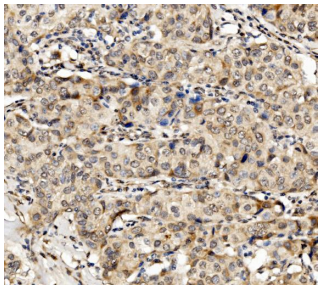
Product Data Sheet: SETD1A

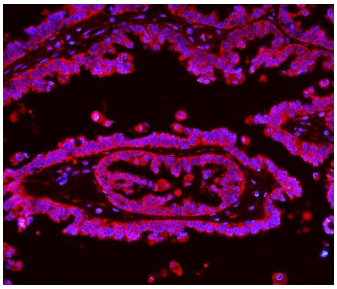
Cat. No:	AB-84349
Size:	100ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 0.25-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section):0.5-1ug/ml Immunofluorescence: 2ug/ml, Human ELISA: 0.1-0.5mug/ml
Molecular Weight:	186kDa
Purification:	Aff. Pur.
Background:	Histone-lysine N-methyltransferase SETD1A is an enzyme that in humans is encoded by the SETD1A gene. It is mapped to 16p11.2. The protein encoded by this gene is a component of a histone methyltransferase (HMT) complex that produces mono-, di-, and trimethylated histone H3 at Lys4. Trimethylation of histone H3 at lysine 4 (H3K4me3) is a chromatin modification known to generally mark the transcription start sites of active genes. The protein contains SET domains, a RNA recognition motif domain and is a member of the class V-like SAM-binding methyltransferase superfamily.
Form:	Liquid
Buffer:	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage:	Store at -20˚C for one year from date of receipt. Avoid repeated freeze-thaw cycles.



Western blot analysis of hSET1/SET1/SETD1A using anti-hSET1/SET1/SETD1A antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human SW620 whole cell lysates,
Lane 2: human U87 whole cell lysates.



IHC analysis of hSET1/SET1/SETD1A using anti hSET1/SET1/SETD1A antibody. hSET1/SET1/SETD1A was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0,epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-hSET1/SET1/SETD1A Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG



IF analysis of hSET1/SET1/SETD1A using antihSET1/
SET1/SETD1A antibody. hSET1/SET1/SETD1A was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/mL rabbit anti-hSET1/SET1/SETD1A Antibody overnight

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.
Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5hour at RT. The membrane was incubated with rabbit tihSET1/SET1/SETD1A antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5minutes each and probed with a goat anti-rabbit IgG-HRPsecondary antibody at a dilution of 1:5000 for 1.5 hour atRT. The signal is developed using an ECL West Pico Plus kit
with Tanon 5200 system. A specific band was detected forhSET1/SET1/SETD1A at approximately 186KD. The expectedband size for hSET1/SET1/SETD1A is at 186KD.

was used as secondary antibody and incubated for 30minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

at 4°C. Biotin conjugated goat antirabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using DyLight®594 Conjugated Avidin.
The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.