

anti- SETMAR antibody

Product Information

Catalog No.:	FNab07773
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Protein derived from the fusion of a methylase with the transposase of an Hsmar1 transposon that plays a role in DNA double-strand break repair, stalled replication fork restart and DNA integration. DNA-binding protein, it is indirectly recruited to sites of DNA damage through protein-protein interactions. Has also kept a sequence-specific DNA-binding activity recognizing the 19-mer core of the 5'-terminal inverted repeats(TIRs) of the Hsmar1 element and displays a DNA nicking and end joining activity(PubMed:16332963, PubMed:16672366, PubMed:17877369, PubMed:17403897, PubMed:18263876, PubMed:22231448, PubMed:24573677, PubMed:20521842). In parallel, has a histone methyltransferase activity and methylates 'Lys-4' and 'Lys-36' of histone H3. Specifically mediates dimethylation of H3 'Lys-36' at sites of DNA double-strand break and may recruit proteins required for efficient DSB repair through non-homologous end-joining(PubMed:16332963, PubMed:21187428, PubMed:22231448). Also regulates replication fork processing, promoting replication fork restart and regulating DNA decatenation through stimulation of the topoisomerase activity of TOP2A(PubMed:18790802, PubMed:20457750).

Immunogen information

Immunogen:	SET domain and mariner transposase fusion gene
Synonyms:	None

Wuhan Fine Biotech Co., Ltd.

B9 Bld, High-Tech Medical Devices Park, No. 818 GaoxinAve.East Lake High-Tech Development Zone.Wuhan, Hubei, China(430206)

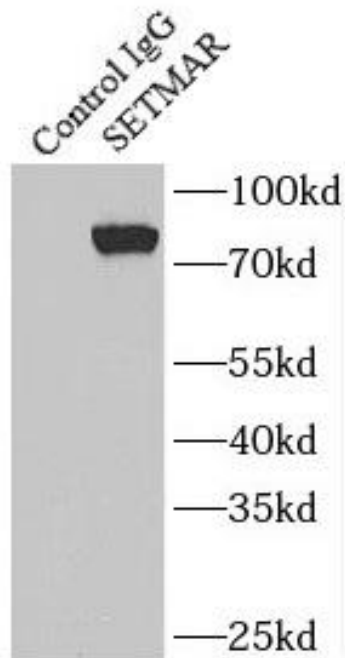
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Observed MW: 77 kDa
UniprotID : Q53H47

Application

Reactivity: Human
Tested Application: ELISA, WB, IP
Recommended dilution: WB: 1:500-1:2000; IP: 1:200-1:2000
Image:



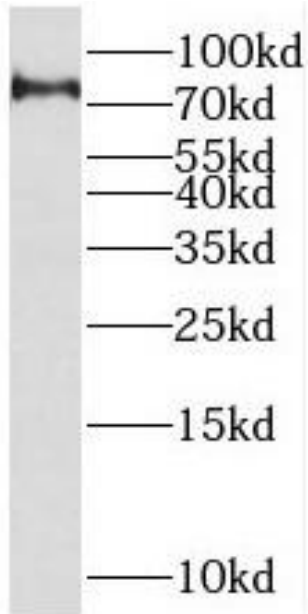
IP Result of anti-SETMAR (IP:FNab07773, 4ug;
Detection:FNab07773 1:500) with HL-60 cells
lysate 1600ug.

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HL-60 cells were subjected to SDS PAGE followed by western blot with FNab07773(SETMAR Antibody) at dilution of 1:600

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