Datasheet for ABIN7118987

anti-SETMAR antibody

Go to Product page

Overview

Quantity:	100 µg
Target:	SETMAR
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SETMAR antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	SET domain and mariner transposase fusion gene
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	SETMAR
Alternative Name:	SETMAR (SETMAR Products)
Background:	Synonyms: 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

Target Details

	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).
Molecular Weight:	77 kDa
Gene ID:	6419
UniProt:	Q53H47
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	WB: 1:500-1:2000, IP: 1:200-1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months