

## SETMAR polyclonal antibody

Catalog: BS61494

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

SETMAR (SET domain and mariner transposase fusion gene-containing protein), also known as METNASE or Hsmar1, is a ubiquitously expressed fusion protein with histone-lysine N-methyltransferase activity and DNA-binding, DNA-looping and DNA-cleavage activities. Localizing to the nucleus, SETMAR contains one N-terminal SET domain which facilitates the histone-lysine methyltransferase activity (at H3-Lys4 and H3-Lys36) and a C-terminal transposase domain which is responsible for the DNA-binding, -looping and -cleavage activities. Both domains are essential for the proper function of SETMAR. SETMAR specifically functions in DNA repair but, on its own, SETMAR can only bind to 5'-TIR (terminal inverted repeats) in DNA. For interactions with non-TIR DNA, SETMAR (via its SET domain) binds to and forms a stable complex with the pre-mRNA processing protein PRP19. Due to alternative splicing events, two isoforms exist.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 78 kDa

### Swiss-Prot:

Q53H47

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

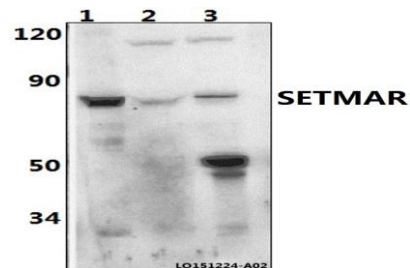
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

SETMAR polyclonal antibody detects endogenous levels of SETMAR protein.

### DATA:



Western blot (WB) analysis of SETMAR polyclonal antibody at 1:500 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:PC12 whole cell lysate(40ug)

Lane3:NIH-3T3 whole cell lysate(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

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