

Product Name: SETMAR Rabbit Polyclonal Antibody

Catalog #: APRab17779

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application IHC,ICC/IF,ELISA

Reactivity Human,Rat,Mouse

Conjugation Unconjugated

Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000

Molecular Weight

Antigen Information

Alternative Names

Gene Name SETMAR

SETMAR; Histone-lysine N-methyltransferase SETMAR; SET domain and mariner transposase

fusion gene-containing protein; HsMar1; Metnase

 Gene ID
 6419.0

 SwissProt ID
 Q53H47

The antiserum was produced against synthesized peptide derived from human SETMAR. AA Immunogen

range:350-400

Background



This gene encodes a fusion protein that contains an N-terminal histone-lysine N-methyltransferase domain and a C-terminal mariner transposase domain. The encoded protein binds DNA and functions in DNA repair activities including nonhomologous end joining and double strand break repair. The SET domain portion of this protein specifically methylates histone H3 lysines 4 and 36. This gene exists as a fusion gene only in anthropoid primates, other organisms lack mariner transposase domain. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013],catalytic activity:S-adenosyl-Lmethionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysine.,domain:The mariner transposase Hsmar1 region mediates DNA-binding. It has no transposase activity because the active site contains an Asn in position 610 instead of a Asp residue., function: Histone methyltransferase that methylates 'Lys-4' and 'Lys-36' of histone H3, 2 specific tags for epigenetic transcriptional activation. Specifically mediates dimethylation of H3 'Lys-36'. Binds DNA. May play a role in nonhomologous end-joining repair, miscellaneous: The mariner transposase region in only present in primates and appeared 40-58 million years ago, after the insertion of a transposon downstream of a preexisting SET gene, followed by the de novo exonization of previously non-coding sequence and the creation of a new intron, similarity: Contains 1 post-SET domain., similarity: Contains 1 pre-SET domain., similarity: Contains 1 SET domain., similarity: In the C-terminal section; belongs to the mariner transposase family,,similarity:In the N-terminal section; belongs to the histone-lysine methyltransferase family, tissue specificity: Widely expressed, with highest expression in placenta and ovary and lowest expression in skeletal muscle.,

Research Area

Lysine degradation;

Image Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4° overnight) . 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min) .

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