

AP07866PU-N**Polyclonal Antibody to SETDB1 - Aff - Purified****Alternate names:**

ERG-associated protein with SET domain, ESET, H3-K9-HMTase 4, Histone H3-K9 methyltransferase 4, Histone-lysine N-methyltransferase SETDB1, KIAA0067, KMT1E, Lysine N-methyltransferase 1E, SET domain bifurcated 1

Quantity:

50 µg

Concentration:

1.2 mg/ml

Background:

The SET domain is a highly conserved, approximately 150-amino acid motif implicated in the modulation of chromatin structure. It was originally identified as part of a larger conserved region present in the *Drosophila trithorax* protein and was subsequently identified in the *Drosophila* Su(var)3-9 and 'Enhancer of zeste' proteins, from which the acronym SET is derived. Studies have suggested that the SET domain may be a signature of proteins that modulate transcriptionally active or repressed chromatin states through chromatin remodeling activities. ESET functions as a histone methyltransferase by methylation of Lys-9 of histone H3. H3 Lys-9 methylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. ESET shows a nuclear localization and is associated with non-pericentromeric regions of chromatin, and is excluded from nucleoli and islands of condensed chromatin. Although ESET is a widely expressed protein, it is highly expressed in the testis.

Uniprot ID:[Q15047](#)**NCBI:**[NP_001138887.1](#)**GeneID:**[9869](#)**Host:**

Rabbit

Immunogen:

Synthetic Peptide corresponding to Amino acids 1058-1075 of human ESET.

Format:**State:** Liquid purified IgG fraction.**Purification:** Immunoaffinity Chromatography.**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide as preservative.**Applications:****ELISA:** 1/10000 - 1/50000.**Immunohistochemistry on Paraffin Sections:** 5 µg/ml.**Western Blot:** 1/1000 - 1/2500.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Recognises SET Domain Bifurcated 1 (SETDB1).

Species: Human.

Other species not tested.

Storage:

Store the antibody (in aliquots) at -20°C.

Dilute only prior to immediate use.

Avoid cycles of freezing and thawing.

Shelf life: One year from despatch.

Pictures:

Figure 1. Staining SETDB1 in Testis by Immunohistochemistry using Formalin-Fixed Paraffin-Embedded (FFPE) tissue.

