

Product datasheet for **TA319369**

SETDB1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:10,000 - 1:50,000, WB: 1:1,000 - 1:2,500, IHC: User Optimized
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 1058-1075 of human ESET.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	SET domain bifurcated 1
Database Link:	NP_001138887 Entrez Gene 9869 Human Q15047
Synonyms:	ESET; H3-K9-HMTase4; KG1T; KMT1E; TDRD21

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Note: 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.

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

Product images:



WB analysis using Anti-ESET antibody to detect human ESET present in a 293 whole cell lysate. ~30ug of lysate was loaded per lane for SDS-PAGE. Comparison to a molecular weight marker (not shown) indicates a single band of ~170 kDa is detected. Peptide competition (not shown) blocks staining of this band. The blot was incubated with a 1:1000 dilution of the antibody at RT for 2 h followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] diluted 1:5,000 for 45 min.