

Datasheet for 600-401-689**ESET Antibody****Overview**

Description:	Anti-Human ESET (RABBIT) Antibody - 600-401-689
Item No.:	600-401-689
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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 <i>Drosophila</i> trithorax protein and was subsequently identified in the <i>Drosophila</i> 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.
Synonyms:	rabbit anti-ESET antibody, ERG-associated protein with SET domain, rabbit anti-SETDB1 antibody, SETDB-1, SETDB 1, Histone lysine N methyltransferase antibody, Histone-lysine N-methyltransferase SETDB1 antibody, KMT1E antibody, Lysine N-methyltransferase 1E antibody, SET domain bifurcated 1, H3-K9-HMTase 4, Histone H3-K9 methyltransferase 4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SETDB1
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Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 1050-1075 of human ESET.
Purity/Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. Reactivity occurs against human ESET protein.
Relevant Links:	• UniProtKB - Q15047 • NCBI - 224177469 • GeneID - 9869

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blotting. Western blotting shows reactivity specific for human ESET detecting a band at approximately 170 kDa. Specific band detection by western blot is blocked by peptide competition by pre-incubating the antibody with the immunizing peptide prior to reaction with the membrane. Reactivity in other immunoassays is unknown.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	User Optimized
WB:	1:1,000 - 1:2,500

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.17 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis is shown using Rockland's Affinity Purified anti-ESET antibody to detect human ESET present in a 293 whole cell lysate (p/n W09-000-365). ~30µg 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 room temperature for 2 h followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] (p/n 611-132-122) diluted 1:5,000 for 45 min. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Disclaimer

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