

Rabbit anti-Human, Rat SET Polyclonal Antibody | anti-SET antibody

SET Antibody

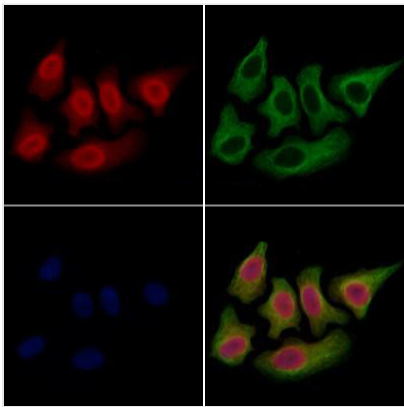
CATALOG # AAA31227	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

SET; Polyclonal Antibody; SET Antibody; 2PP2A; HLA DR associated protein II; HLA-DR-associated protein II; I 2PP2A; I-2PP2A; I2PP2A; IGAAD; Inhibitor of granzyme A activated DNase; Inhibitor of granzyme A-activated DNase; Inhibitor of GzmA-activated DNase; inhibitor-2 of protein phosphatase-2A; IPP2A2; PHAPII; Phosphatase 2A inhibitor I2PP2A; protein phosphatase type 2A inhibitor; Protein SET; Set; SET nuclear oncogene; SET translocation; SET translocation (myeloid leukemia-associated); SET_HUMAN; TAF I; TAF IBETA; TAF-I; TAFI; Template activating factor I; Template-activating factor I; Template-Activating Factor-I; chromatin remodelling factor; anti-SET antibody

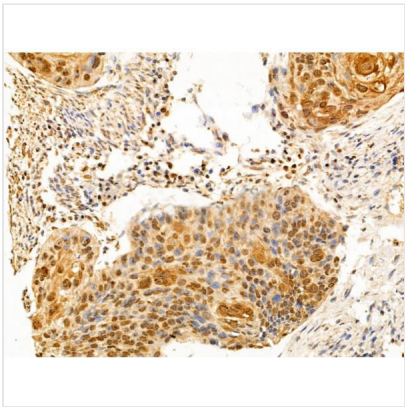
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SET Antibody detects endogenous levels of total SET.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	290
Applicable Applications for anti-SET antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human SET, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



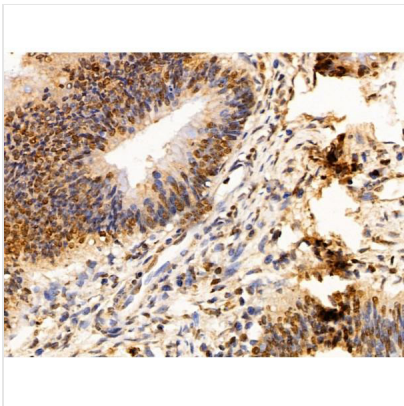
IF (Immunofluorescence)

AAA31227 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31227 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



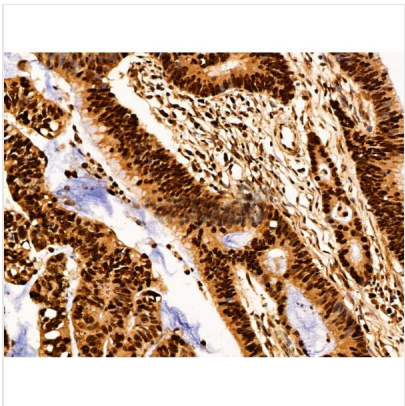
IHC (Immunohistochemistry-Paraffin)

AAA31227 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



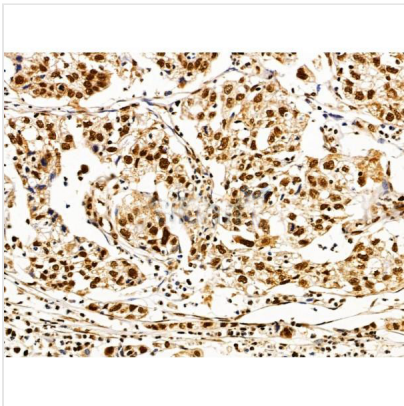
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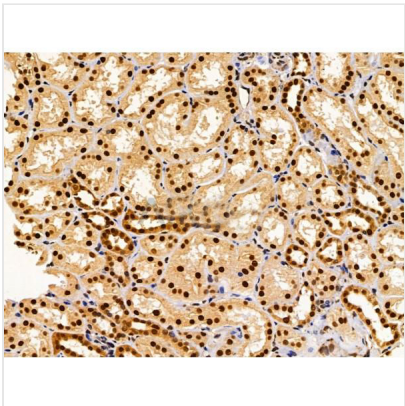
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IHC (Immunohistochemistry-Paraffin)

AAA31227 at 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31227 at 1/100 staining Human kidney cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SET antibody	Function: Multitasking protein, involved in apoptosis, transcription, nucleosome assembly and histone chaperoning. Isoform 2 anti-apoptotic activity is mediated by inhibition of the GZMA-activated DNase, NME1. In the course of cytotoxic T-lymphocyte (CTL)-induced apoptosis, GZMA cleaves SET, disrupting its binding to NME1 and releasing NME1 inhibition. Isoform 1 and isoform 2 are potent inhibitors of protein phosphatase 2A. Isoform 1 and isoform 2 inhibit EP300/CREBBP and PCAF-mediated acetylation of histones (HAT) and nucleosomes, most probably by masking the accessibility of lysines of histones to the acetylases. The predominant target for inhibition is histone H4. HAT inhibition leads to silencing of HAT-dependent transcription and prevents active demethylation of DNA. Both isoforms stimulate DNA replication of the adenovirus genome complexed with viral core proteins; however, isoform 2 specific activity is higher. Post Translational Modifications: Isoform 2 is phosphorylated on Ser-15 and Ser-24.Isoform 2 is acetylated on Lys-11.Some glutamate residues are glycyalted by TTLL8. This modification occurs exclusively on glutamate residues and results in a glycine chain on the gamma-carboxyl group (By similarity).N-terminus of isoform 1 is methylated by METTL11A/NTM1. Mainly trimethylated (By similarity).Cleaved after Lys-176 by GZMA. The cleavage inhibits its nucleosome assembly activity and disrupts the inhibition on NME1. Subcellular Location: Cytoplasm>Cytosol. Endoplasmic reticulum. Nucleus>Nucleoplasm. Note: In the cytoplasm, found both in the cytosol and associated with the endoplasmic reticulum. The SET complex is associated with the endoplasmic reticulum. Following CTL attack and cleavage by GZMA, moves rapidly to the nucleus, where it is found in the nucleoplasm, avoiding the nucleolus. Similar translocation to the nucleus is also observed for lymphocyte-activated killer cells after the addition of calcium. Tissue Specificity: Widely expressed. Low levels in quiescent cells during serum starvation, contact inhibition or differentiation. Highly expressed in Wilms' tumor. Subunit Structure: Headphone-shaped homodimer. Isoforms 1 and 2 interact directly with each other and with ANP32A within the tripartite INHAT (inhibitor of acetyltransferases) complex. Isoform 1 and isoform 2 interact also with histones. Isoform 2 is a component of the SET complex, composed of at least ANP32A, APEX1, HMGB2, NME1, SET and TREX1, but not NME2 or TREX2. Within this complex, directly interacts with ANP32A, NME1, HMGB2 and TREX1; the interaction with ANP32A is enhanced after cleavage. Interacts with APBB1, CHTOP, SETBP1, SGO1.(Microbial infection) Interacts with herpes simplex virus 1 VP22. Similarity: A long alpha helix in the N-terminus mediates dimerization, while the earmuff domain is responsible for core histone and dsDNA binding. The C-terminal acidic domain mediates the inhibition of histone acetyltransferases and is required for the DNA replication stimulatory activity.Belongs to the nucleosome assembly protein (NAP) family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	170763500
NCBI GeneID	6418
NCBI Accession #	NP_001116293.1
NCBI GenBank Nucleotide #	NP_001116293.1
UniProt Accession #	Q01105
Molecular Weight	Observed Molecular Weight: (Observed)33kD. Predicted Molecular Weight: (Calculated)33kDa.
NCBI Official Full Name	protein SET isoform 1
NCBI Official Synonym Full Names	SET nuclear proto-oncogene
NCBI Official Symbol	SET
NCBI Official Synonym Symbols	2PP2A; IGAAD; MRD58; TAF-I; I2PP2A; IPP2A2; PHAPII; TAF-IBETA
NCBI Protein Information	protein SET
UniProt Protein Name	Protein SET

UniProt Gene Name	SET
UniProt Synonym Gene Names	IGAAD; I-2PP2A; TAF-I
UniProt Entry Name	SET_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/set-antibody-elisa/31227>