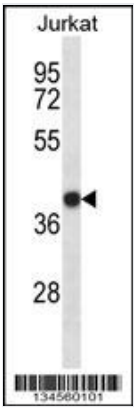
SET Antibody – Rabbit Polyclonal

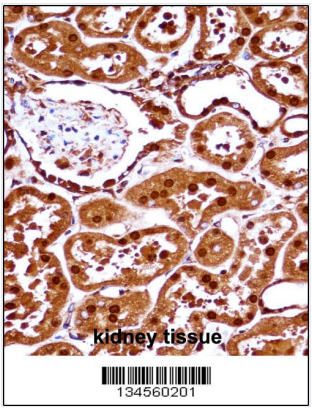
PRODUCT OVERVIEW

Product Name	SET, Polyclonal Antibody
Full Product Name	SET Antibody (N-term)
Product Gene Name	anti-SET antibody
Product Synonym Names	Protein SET; HLA-DR-associated protein II; Inhibitor of granzyme A-activated DNase; IGAAD; PHAPII; Phosphatase 2A inhibitor I2PP2A; I-2PP2A; Template-activating factor I; TAF-I; SET
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Drosophila, Mouse, Rat)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This SET antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 47-75 amino acids from the N-terminal region of human SET.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	SET peptide (MBS9220913) is used for blocking the activity of SET antibody (MBS9208933)
Molecular Weight	33489
Immunogen Sequence Positions	47-75
OMIM	600960
3D Structure	ModBase 3D Structure for Q01105
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-SET antibody	Cancer; Cell Biology; Immunology; Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-SET antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-SET antibody	WB~~1:1000
Related Product Information for anti-SET antibody	Multitasking protein, involved in apoptosis, transcription, nucleosome assembly and histone binding. 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.

Product References and Citations for anti-SET antibody	Kim, D.W., et al. Biochem. Biophys. Res. Commun. 400(3):419-425(2010) Chao, A., et al. Cancer Lett. 291(1):99-107(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) : Samanta, A.K., et al. Oncogene 28(14):1669-1681(2009) Kajiwara, Y., et al. PLoS ONE 4 (4), E5071 (2009) :
Other Notes	Small volumes of anti-SET antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SET purchase	MBS9208933 is an antibody targeting SET. Also known as SET Antibody (N-term). Reactive in Human (Predicted Reactivity: Drosophila, Mouse, Rat). Host: Rabbit.



Western Blot (WB) of anti-SET antibody
SET Antibody (N-term) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the SET antibody detected the SET protein (arrow).



Immunohistochemistry (IHC) of anti-SET antibody
SET Antibody (N-term) (MBS9208933)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SET Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SET. It may not necessarily be applicable to this product.

NCBI GI #	170763500
NCBI GeneID	6418
NCBI Accession #	NP_001116293.1
NCBI Related Accession #	NP_001234929.1; NP_001234930.1; NP_003002.2
UniProt Primary Accession #	Q01105
UniProt Secondary Accession #	Q15541; Q5VXV1; Q5VXV2; Q6FHZ5; A5A5H4; A6NGV1; B4DUE2
UniProt Related Accession #	Q01105
GenBank Nucleotide #	NM_001122821.1
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; TAF-I; I2PP2A; IPP2A2; PHAPII; TAF-IBETA
UniProt Protein Name	Protein SET
UniProt Synonym Protein Names	HLA-DR-associated protein II; Inhibitor of granzyme A-activated DNase; IGAAD; PHAPII; Phosphatase 2A inhibitor I2PP2A; I-2PP2A; Template-activating factor I; TAF-I
Protein Family	Protein

UniProt Gene Name	SET
UniProt Synonym Gene Names	IGAAD; I-2PP2A; TAF-I
UniProt Entry Name	SET_HUMAN
NCBI Protein Information	protein SET
NCBI Summary for SET	The protein encoded by this gene inhibits acetylation of nucleosomes, especially histone H4, by histone acetylases (HAT). This inhibition is most likely accomplished by masking histone lysines from being acetylated, and the consequence is to silence HAT-dependent transcription. The encoded protein is part of a complex localized to the endoplasmic reticulum but is found in the nucleus and inhibits apoptosis following attack by cytotoxic T lymphocytes. This protein can also enhance DNA replication of the adenovirus genome. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for SET	SET: a potent inhibitor of protein phosphatase 2A involved in apoptosis, transcription, nucleosome assembly and histone binding. The translocation t(6;9)(q21;q34.1) NUP214/CAN is found in some cases of acute undifferentiated leukemia (AUL). Two alternatively spliced isoforms have been described. Isoform 1 and isoform 2 interact directly with each other and with ANP32A within the tripartite INHAT (inhibitor of acetyltransferases) complex. Both isoforms inhibit the 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. 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. Protein type: Oncoprotein; DNA replication; Inhibitor; Apoptosis; Nuclear receptor co-regulator; DNA-binding Chromosomal Location of Human Ortholog: 9q34 Cellular Component: nucleoplasm; protein complex; endoplasmic reticulum; perinuclear region of cytoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; DNA binding; histone binding; protein phosphatase type 2A regulator activity; protein phosphatase inhibitor activity Biological Process: nucleosome assembly; nucleosome disassembly; regulation of catalytic activity; negative regulation of catalytic activity; nucleocytoplasmic transport; gene expression; negative regulation of neuron apoptosis; mitotic cell cycle; DNA replication; negative regulation of transcription, DNA-dependent; negative regulation of histone acetylation
Research Articles on SET	**1.** Therefore, SET overexpression in HEK293 cells promotes mitochondrial fission and reduces autophagic flux in apparent association with up-regulation of UCP2 and UCP3.
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