SET Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SET, Polyclonal Antibody
Full Product Name	SET Polyclonal Antibody
Product Gene Name	anti-SET antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	30kDa; 31kDa; 32kDa; 33kDa
OMIM	600960
3D Structure	ModBase 3D Structure for Q01105
Immunogen	Recombinant protein of human SET (NP_003002.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SET antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-SET antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-SET antibody	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.
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	MBS8567366 is an antibody targeting SET. Also known as SET Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

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

UniProt Primary Accession #	Q01105
UniProt Related Accession #	Q01105
GenBank Nucleotide #	NP_001116293.1
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; MRD58; 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
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: Nuclear receptor co-regulator; DNA-binding; Apoptosis; DNA replication; Oncoprotein; Inhibitor Chromosomal Location of Human Ortholog: 9q34 Cellular Component: nucleoplasm; protein complex; perinuclear region of cytoplasm; endoplasmic reticulum; 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.** Our study identifies SET as a new component of epigenetic regulatory modules underlying human cognitive disorders, and as a first member of the Nucleosome Assembly Protein (NAP) family implicated in intellectual disability
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