SET2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SET2, Polyclonal Antibody
Full Product Name	SET2, NT (Histone-lysine N-methyltransferase SETD2, SET domain-containing protein 2, hSET2, Huntingtin-interacting protein HYPB, Huntingtin yeast partner B, Huntingtin-interacting protein 1, HIF-1, p231HBP, SETD2, HIF1, HYPB, KIAA1732' SET2) (Biotin)
Product Gene Name	anti-SET2 antibody
Product Synonym Gene Name	SETD2
Product Synonym Names	Histone-lysine N-methyltransferase SETD2; SET domain-containing protein 2; hSET2; Huntingtin-interacting protein HYPB; Huntingtin yeast partner B; Huntingtin-interacting protein 1; HIF-1; p231HBP; SETD2; HIF1; HYPB; KIAA1732' SET2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	2564
OMIM	phenotype 612778
3D Structure	ModBase 3D Structure for Q9BYW2
Immunogen	SET2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21~50 amino acids from the N-terminal region of human SET2.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SET2 antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-SET2 antibody	Immunohistochemistry (IHC), ELISA (EIA), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-SET2 antibody	IHC: 1:50-100 ELISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-SET2 antibody	SET2 is a histone methyltransferase that methylates 'Lys-36' of histone H3. H3 'Lys-36' methylation represents a specific tag for epigenetic transcriptional activation. This protein probably plays a role in chromatin structure modulation during elongation via its interaction with hyperphosphorylated POLR2A. SET2 binds DNA at promoters, and may act as a transcription activator. SET2 binds to the promoters of adenovirus 12 E1A gene in case of infection, possibly leading to regulate its expression. Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. SET2 belongs to a class of huntingtin interacting proteins characterized by WW motifs.
Product References and Citations for anti-SET2 antibody	Rega, S., et al., Mol. Cell. Neurosci. 18(1):68-79 (2001). Passani, L.A., et al., Hum. Mol. Genet. 9(14):2175-2182 (2000). Faber, P.W., et al., Hum. Mol. Genet. 7(9):1463-1474 (1998).
Other Notes	Small volumes of anti-SET2 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 SET2 purchase	MBS6346451 is an antibody targeting SET2. Also known as SET2, NT (Histone-lysine N-methyltransferase SETD2, SET domain-containing protein 2, hSET2, Huntingtin-interacting protein HYPB, Huntingtin yeast partner B, Huntingtin-interacting protein 1, HIF-1, p231HBP, SETD2, HIF1, HYPB, KIAA1732' SET2) (Biotin). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SET2. It may not necessarily be applicable to this product.

NCBI GI #	296452963
NCBI GeneID	29072
NCBI Accession #	Q9BYW2.3
UniProt Primary Accession #	Q9BYW2
UniProt Secondary Accession #	O75397; O75405; Q17RW8; Q5BKS9; Q5QGN2; Q69YI5; Q6IN64; Q6ZN53; Q6ZS25; Q8N3R0; Q8TCN0
UniProt Related Accession #	Q9BYW2
NCBI Official Full Name	Histone-lysine N-methyltransferase SETD2
NCBI Official Synonym Full Names	SET domain containing 2
NCBI Official Symbol	SETD2
NCBI Official Synonym Symbols	HYPB; SET2; HIF-1; HIP-1; KMT3A; HBP231; HSPC069; p231HBP
UniProt Protein Name	Histone-lysine N-methyltransferase SETD2
UniProt Synonym Protein Names	HIF-1; Huntingtin yeast partner B; Huntingtin-interacting protein 1; HIP-1; Huntingtin-interacting protein B; Lysine N-methyltransferase 3A; SET domain-containing protein 2; hSET2; p231HBP
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	SETD2
UniProt Synonym Gene Names	HIF1; HYPB; KIAA1732; KMT3A; SET2; HIP-1; hSET2
UniProt Entry Name	SETD2_HUMAN
NCBI Protein Information	histone-lysine N-methyltransferase SETD2; huntingtin yeast partner B; lysine N-methyltransferase 3A; huntingtin interacting protein 1; huntingtin-interacting protein B
NCBI Summary for SET2	Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II. [provided by RefSeq, Aug 2008]

UniProt Comments for SET2	SETD2: Histone methyltransferase that methylates 'Lys-36' of histone H3. H3 'Lys-36' methylation represents a specific tag for epigenetic transcriptional activation. Probably plays a role in chromatin structure modulation during elongation via its interaction with hyperphosphorylated POLR2A. Binds DNA at promoters. May also act as a transcription activator that binds to promoters. Binds to the promoters of adenovirus 12 E1A gene in case of infection, possibly leading to regulate its expression. Belongs to the histone-lysine methyltransferase family. SET2 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - lysine degradation; Methyltransferase, protein lysine; EC 2.1.1.43; Methyltransferase Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: nucleoplasm; chromosome Molecular Function: protein binding; histone-lysine N-methyltransferase activity Biological Process: pericardium development; establishment and/or maintenance of chromatin architecture; stem cell development; mismatch repair; regulation of transcription, DNA-dependent; mesoderm morphogenesis; forebrain development; neural tube closure; RNA elongation from RNA polymerase II promoter; embryonic cranial skeleton morphogenesis; morphogenesis of a branching structure; angiogenesis
Research Articles on SET2	**1.** Results implicate SETD2 as a tumor suppressor gene and demonstrate that loss-of-function SETD2 mutations can facilitate the initiation and maintenance of leukemias with chromosomal translocations through a global reduction of H3K36me3.
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