SETD2 Blocking Peptide

PRODUCT OVERVIEW

Product Name	SETD2, Blocking Peptide
Full Product Name	SETD2 Peptide
Product Gene Name	SETD2 blocking peptide
Product Synonym Gene Name	FLJ16420; FLJ22472; FLJ23184; FLJ45883; HIF-1; HSPC069; HYPB; KIAA1732; KMT3A; SET2; HIP-1; HBP231; p231HBP
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	SETD2 peptide (MBS3233630) is used for blocking the activity of SETD2 antibody (MBS3208668)
Molecular Weight	97kDa
OMIM	phenotype 612778
Product Categories/Family for SETD2 blocking peptide	Peptide
Applications Tested/Suitable for SETD2 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for SETD2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-SETD2 antibody made Target Description: 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. SETD2 is a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs.
Other Notes	Small volumes of SETD2 blocking peptide 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 SETD2 purchase	MBS3233630 is a blocking peptide targeting SETD2. Also known as SETD2 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SETD2. It may not necessarily be applicable to this product.

NCBI GI #	47938153
NCBI GeneID	29072
NCBI Accession #	AAH72440
UniProt Primary Accession #	Q9BYW2
UniProt Related Accession #	Q9BYW2
GenBank Nucleotide #	NM_014159
NCBI Official Full Name	SETD2 protein, partial
NCBI Official Synonym Full Names	SET domain containing 2, histone lysine methyltransferase
NCBI Official Symbol	SETD2

NCBI Official Synonym Symbols	LLS; 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
NCBI Summary for SETD2	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 SETD2	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 SETD2	**1.** we show a strong relationship between the expression profiles of PBRM1, BAP1 and SETD2 in ccRCC suggesting reciprocal synergy effects in the context of tumor suppression.
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