EED Blocking Peptide

PRODUCT OVERVIEW

Product Name	EED, Blocking Peptide
Full Product Name	EED Peptide
Product Gene Name	EED blocking peptide
Product Synonym Gene Name	HEED; WAIT1
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	EED peptide (MBS3229017) is used for blocking the activity of EED antibody (MBS3204050)
Molecular Weight	46kDa
OMIM	605984
Product Categories/Family for EED blocking peptide	Peptide
Applications Tested/Suitable for EED blocking peptide	Western Blot (WB)
Related Product Information for EED blocking peptide	This is a synthetic peptide designed for use in combination with anti-EED antibody made Target Description: EED is a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein interacts with enhancer of zeste 2, the cytoplasmic tail of integrin beta7, immunodeficiency virus type 1 (HIV-1) MA protein, and histone deacetylase proteins. This protein mediates repression of gene activity through histone deacetylation, and may act as a specific regulator of integrin function.
Other Notes	Small volumes of EED 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 EED purchase	MBS3229017 is a blocking peptide targeting EED. Also known as EED Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	24041023
NCBI GeneID	8726
NCBI Accession #	NP_694536
UniProt Primary Accession #	O75530
UniProt Related Accession #	O75530
GenBank Nucleotide #	NM_152991
NCBI Official Synonym Full Names	embryonic ectoderm development
NCBI Official Symbol	EED
NCBI Official Synonym Symbols	HEED; COGIS; WAIT1

UniProt Protein Name	Polycomb protein EED
UniProt Synonym Protein Names	WD protein associating with integrin cytoplasmic tails 1; WAIT-1
Protein Family	Polycomb protein
UniProt Gene Name	EED
UniProt Synonym Gene Names	hEED; WAIT-1
UniProt Entry Name	EED_HUMAN
NCBI Protein Information	polycomb protein EED
NCBI Summary for EED	This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein interacts with enhancer of zeste 2, the cytoplasmic tail of integrin beta7, immunodeficiency virus type 1 (HIV-1) MA protein, and histone deacetylase proteins. This protein mediates repression of gene activity through histone deacetylation, and may act as a specific regulator of integrin function. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for EED	EED: a member of the superfamily of Polycomb group (PcG) methyltransferase proteins with WD-40 repeats. PcG complexes mediate chromatin modifications that contribute to transcriptional silencing during development and carcinogenesis. A part of the Polycomb-repressive complex 2 (PRC2) along with EZH2, SUZ12, RBBP4 and RBBP7 and possibly AEBP2. Interacts with HDAC, HDAC2, histone H1 and YY1. PRC2 trimethylates histone H3 on K9 and K27, transcriptionally repressing target gene including HOXC8, HOXA9, MYT1 and CDKN2A. Appears to be overexpressed in breast and colon cancers. Inhibitors of PRC2-mediated gene repression are being investigated as a cancer therapy. EED and EZH2 are also implicated in the silencing of the inactive X chromosome. Three human isoforms produced by alternative splicing or initiation have been described, and additional isoforms may be produced by alternative initiation. Protein type: Methyltransferase Chromosomal Location of Human Ortholog: 11q14.2-q22.3 Cellular Component: nucleoplasm; sex chromatin; pronucleus; ESC/E(Z) complex; cytoplasm; nucleolus; nucleus Molecular Function: histone methyltransferase activity; identical protein binding; protein binding; chromatin binding Biological Process: histone methylation; genetic imprinting; transcription, DNA-dependent; negative regulation of gene expression, epigenetic; gene expression; negative regulation of transcription, DNA-dependent; regulation of gene expression, epigenetic
Research Articles on EED	**1.** we present a patient with a clinical diagnosis of Weaver syndrome and novel de novo sequence variant in EED. Our observation together with previous reports [2, 3, 5] suggests that EED gene testing is warranted in patients with the overgrowth syndrome features and suspicion of Weaver syndrome with normal results for EZH2 gene sequencing.
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