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EED Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP21267a

Specification

EED Blocking Peptide (N-term) - Product Information

Primary Accession O75530

EED Blocking Peptide (N-term) - Additional Information

Gene ID 8726

Other Names
Polycomb protein EED, hEED, WD protein associating with integrin cytoplasmic tails 1, WAIT-1, EED

Target/Specificity
The synthetic peptide sequence is selected from aa 38-52 of HUMAN EED

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EED Blocking Peptide (N-term) - Protein Information

Name EED (HGNC:3188)

Function
Polycomb group (PcG) protein. Component of the PRC2/EED-EZH2 complex, which methylates 'Lys-9' and 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Also recognizes

EED Blocking Peptide (N-term) - Background

Polycomb group (PcG) protein. Component of the PRC2/EED- EZH2 complex, which methylates 'Lys-9' and 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Also recognizes 'Lys-26' trimethylated histone H1 with the effect of inhibiting PRC2 complex methyltransferase activity on nucleosomal histone H3 'Lys-27', whereas H3 'Lys-27' recognition has the opposite effect, enabling the propagation of this repressive mark. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A.

EED Blocking Peptide (N-term) - References

Schumacher A.,et al.Genomics 54:79-88(1998).
Sewalt R.G.A.B.,et al.Mol. Cell. Biol. 18:3586-3595(1998).
Peytavi R.,et al.J. Biol. Chem. 274:1635-1645(1999).
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Taylor T.D.,et al.Nature 440:497-500(2006).

'Lys-26' trimethylated histone H1 with the effect of inhibiting PRC2 complex methyltransferase activity on nucleosomal histone H3 'Lys-27', whereas H3 'Lys-27' recognition has the opposite effect, enabling the propagation of this repressive mark. The PRC2/EED- EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A.

Cellular Location
Nucleus. Chromosome. Note=Transiently colocalizes with XIST at inactive X chromosomes

Tissue Location
Expressed in brain, colon, heart, kidney, liver, lung, muscle, ovary, peripheral blood leukocytes, pancreas, placenta, prostate, spleen, small intestine, testis, thymus and uterus. Appears to be overexpressed in breast and colon cancer

EED Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides