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Mouse Leo1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21110a

Specification

Mouse Leo1 Blocking Peptide (C-term) - Product Information

Primary Accession	Q5XJE5
Other Accession	Q641X2

Mouse Leo1 Blocking Peptide (C-term) - Additional Information

Gene ID 235497

Other Names
RNA polymerase-associated protein LEO1, Leo1, Gm185

Target/Specificity
The synthetic peptide sequence is selected from aa 616-630 of HUMAN Leo1

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.

Mouse Leo1 Blocking Peptide (C-term) - Protein Information

Name Leo1

Synonyms Gm185

Function
Component of the PAF1 complex (PAF1C) which has multiple functions during transcription by RNA polymerase II and is

Mouse Leo1 Blocking Peptide (C-term) - Background

Component of the PAF1 complex (PAF1C) which has multiple functions during transcription by RNA polymerase II and is implicated in regulation of development and maintenance of embryonic stem cell pluripotency. PAF1C associates with RNA polymerase II through interaction with POLR2A CTD non- phosphorylated and 'Ser-2'- and 'Ser-5'-phosphorylated forms and is involved in transcriptional elongation, acting both indepentently and synergistically with TCEA1 and in cooperation with the DSIF complex and HTATSF1. PAF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved in hematopoiesis and stimulates transcriptional activity of KMT2A/MLL1. PAF1C is involved in histone modifications such as ubiquitination of histone H2B and methylation on histone H3 'Lys- 4' (H3K4me3). PAF1C recruits the RNF20/40 E3 ubiquitin-protein ligase complex and the E2 enzyme UBE2A or UBE2B to chromatin which mediate monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1); UB2A/B-mediated H2B ubiquitination is proposed to be coupled to transcription. PAF1C is involved in mRNA 3' end formation probably through association with cleavage and poly(A) factors. Involved in polyadenylation of mRNA precursors. Connects PAF1C to Wnt signaling (By similarity).

Mouse Leo1 Blocking Peptide (C-term) - References

Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Smith J.C.,et al.J. Proteome Res. 6:3174-3186(2007).
Villen J.,et al.Proc. Natl. Acad. Sci. U.S.A. 104:1488-1493(2007).
Ding L.,et al.Cell Stem Cell 4:403-415(2009).

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Cellular Location
Nucleus.

Mouse Leo1 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides