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SUPT16H Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP13844c

Specification

SUPT16H Antibody (Center) Blocking peptide - Product Information

Primary Accession Q9Y5B9

SUPT16H Antibody (Center) Blocking peptide - Additional Information

Gene ID 11198

Other Names
FACT complex subunit SPT16, Chromatin-specific transcription elongation factor 140 kDa subunit, FACT 140 kDa subunit, FACTp140, Facilitates chromatin transcription complex subunit SPT16, hSPT16, SUPT16H, FACT140, FACTP140

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13844c was selected from the Center region of SUPT16H. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SUPT16H Antibody (Center) Blocking peptide - Protein Information

Name SUPT16H

Synonyms FACT140, FACTP140

Function
Component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II. The FACT complex is probably also involved in phosphorylation of 'Ser-392' of p53/TP53 via its association with CK2 (casein kinase II).

Cellular Location
Nucleus. Chromosome. Note=Colocalizes with RNA polymerase II on chromatin. Recruited to actively transcribed loci

Tissue Location
Ubiquitous..

SUPT16H Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

SUPT16H Antibody (Center) Blocking peptide - Images

SUPT16H Antibody (Center) Blocking peptide - Background

Transcription of protein-coding genes can be reconstitutedon naked DNA with only the general transcription factors and RNApolymerase II. However, this minimal system cannot transcribe DNApackaged into chromatin, indicating that accessory factors mayfacilitate access to DNA. One such factor, FACT (facilitateschromatin transcription), interacts specifically with histonesH2A/H2B to effect nucleosome disassembly and transcriptionelongation. FACT is composed of an 80 kDa subunit and a 140 kDasubunit; this gene encodes the 140 kDa subunit. [provided byRefSeq].

SUPT16H Antibody (Center) Blocking peptide - References

Heo, K., et al. Mol. Cell 30(1):86-97(2008)Tsuritani, K., et al. Genome Res. 17(7):1005-1014(2007)Li, Y., et al. J. Biol. Chem. 282(10):6936-6945(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)