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SUPT16H / FACTP140 Antibody (clone 8D2)

Mouse Monoclonal Antibody
Catalog # ALS12006

Specification

SUPT16H / FACTP140 Antibody (clone 8D2) - Product Information

Application	**WB**
Primary Accession	Q9Y5B9
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**120kDa KDa**

SUPT16H / FACTP140 Antibody (clone 8D2) - 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
Recombinant (partial)

Reconstitution & Storage
Store at 4°C. Do not freeze.

Precautions
SUPT16H / FACTP140 Antibody (clone 8D2) is for research use only and not for use in diagnostic or therapeutic procedures.

SUPT16H / FACTP140 Antibody (clone 8D2) - 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..

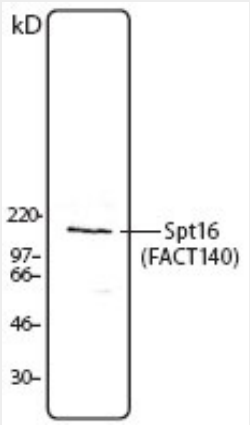
Volume
50 µl

SUPT16H / FACTP140 Antibody (clone 8D2) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SUPT16H / FACTP140 Antibody (clone 8D2) - Images



Hela cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with...

SUPT16H / FACTP140 Antibody (clone 8D2) - Background

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). Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR- mediated transrepression of the CYP27B1 gene.

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SUPT16H / FACTP140 Antibody (clone 8D2) - References

Orphanides G.,et al.Nature 400:284-288(1999).
Bienvenut W.V.,et al.Submitted (JUL-2007) to UniProtKB.
Bienvenut W.V.,et al.Submitted (MAR-2008) to UniProtKB.
Kang S.-W.,et al.Genes Cells 5:251-263(2000).
Orphanides G.,et al.Cell 92:105-116(1998).