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SUPT16H Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SUPT16H.
Catalog # AT4106a

Product Information

Application	WB, E
Primary Accession	Q9Y5B9
Other Accession	NM_007192
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1D12
Calculated MW	119914

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	SUPT16H (NP_009123, 608 a.a. ~ 715 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SUPT16H Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

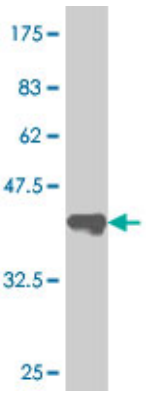
Background

Transcription of protein-coding genes can be reconstituted on naked DNA with only the general transcription factors and RNA polymerase II. However, this minimal system cannot transcribe DNA packaged into chromatin, indicating that accessory factors may facilitate access to DNA. One such factor, FACT (facilitates chromatin transcription), interacts specifically with histones H2A/H2B to effect nucleosome disassembly and transcription elongation. FACT is composed of an 80 kDa subunit and a 140 kDa subunit; this gene encodes the 140 kDa subunit.

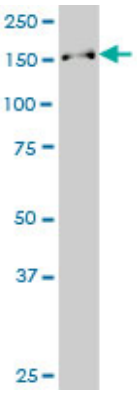
References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.FACT-mediated exchange of histone variant H2AX regulated by phosphorylation of H2AX and ADP-ribosylation of Spt16. Heo K, et al. Mol Cell, 2008 Apr 11. PMID 18406329.Histone H2A monoubiquitination represses transcription by inhibiting RNA polymerase II transcriptional elongation. Zhou W, et al. Mol Cell, 2008 Jan 18. PMID 18206970.Distinct class of putative non-conserved promoters in humans: comparative studies of alternative promoters of human and mouse genes. Tsuritani K, et al. Genome Res, 2007 Jul. PMID 17567985.Human SSRP1 has Spt16-dependent and -independent roles in gene transcription. Li Y, et al. J Biol Chem, 2007 Mar 9. PMID 17209051.

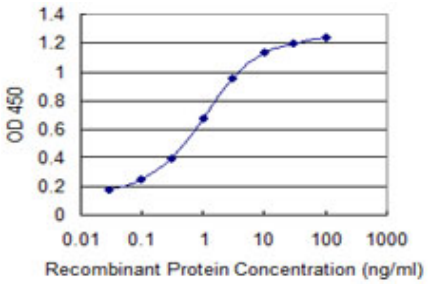
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.62 KDa) .



SUPT16H monoclonal antibody (M01), clone 1D12
Western Blot analysis of SUPT16H expression in Hela S3 NE ((Cat # AT4106a)



Detection limit for recombinant GST tagged SUPT16H is 0.03 ng/ml as a capture antibody.