

SUPT6H Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16555a**Specification**

SUPT6H Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q7KZ85](#)**SUPT6H Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6830**Other Names**

Transcription elongation factor SPT6, hSPT6, Histone chaperone suppressor of Ty6, Tat-cotransactivator 2 protein, Tat-CT2 protein, SUPT6H, KIAA0162, SPT6H

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.

SUPT6H Antibody (N-term) Blocking Peptide - Protein Information**Name** SUPT6H**Synonyms** KIAA0162, SPT6H**Function**

Transcription elongation factor which binds histone H3 and plays a key role in the regulation of transcription elongation and mRNA processing. Enhances the transcription elongation by RNA polymerase II (RNAPII) and is also required for the efficient activation of transcriptional elongation by the HIV-1 nuclear transcriptional activator, Tat. Besides chaperoning histones in transcription, acts to transport and splice mRNA by forming a complex with IWS1 and the C-terminal domain (CTD) of the RNAPII subunit RPB1 (POLR2A). The SUPT6H:IWS1:CTD complex recruits mRNA export factors (ALYREF/THOC4, EXOSC10) as well as histone modifying enzymes (such as SETD2), to ensure proper mRNA splicing, efficient mRNA export and elongation-coupled H3K36 methylation, a signature chromatin mark of active transcription. SUPT6H via its association with SETD1A, regulates both class-switch recombination and somatic hypermutation through formation of H3K4me3 epigenetic marks on activation-induced cytidine deaminase (AICDA) target loci. Promotes the activation of the myogenic gene program by entailing erasure of the repressive H3K27me3 epigenetic mark through stabilization of the chromatin interaction of the H3K27 demethylase KDM6A.

Cellular Location

Nucleus.

Tissue Location

Ubiquitously expressed.

SUPT6H Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SUPT6H Antibody (N-term) Blocking Peptide - Images**SUPT6H Antibody (N-term) Blocking Peptide - Background**

SUPT6H acts to stimulate transcriptional elongation by RNA polymerase II.

SUPT6H Antibody (N-term) Blocking Peptide - References

Olsen, J.V., et al. Cell 127(3):635-648(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)Endoh, M., et al. Mol. Cell. Biol. 24(8):3324-3336(2004)Wu-Baer, F., et al. J. Mol. Biol. 277(2):179-197(1998)Chiang, P.W., et al. Genomics 47(3):426-428(1998)