

**MSL3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17736a****Specification**

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**MSL3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q8N5Y2](#)**MSL3 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 10943

**Other Names**

Male-specific lethal 3 homolog, Male-specific lethal-3 homolog 1, Male-specific lethal-3 protein-like 1, MSL3-like 1, MSL3, MSL3L1

**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.

**MSL3 Antibody (N-term) Blocking Peptide - Protein Information**

Name MSL3

Synonyms MSL3L1

**Function**

Has a role in chromatin remodeling and transcriptional regulation (PubMed:<a href="http://www.uniprot.org/citations/20018852" target="\_blank">20018852</a>, PubMed:<a href="http://www.uniprot.org/citations/20657587" target="\_blank">20657587</a>, PubMed:<a href="http://www.uniprot.org/citations/20943666" target="\_blank">20943666</a>, PubMed:<a href="http://www.uniprot.org/citations/21217699" target="\_blank">21217699</a>, PubMed:<a href="http://www.uniprot.org/citations/30224647" target="\_blank">30224647</a>). Has a role in X inactivation (PubMed:<a href="http://www.uniprot.org/citations/21217699" target="\_blank">21217699</a>). Component of the MSL complex which is responsible for the majority of histone H4 acetylation at 'Lys-16' which is implicated in the formation of higher-order chromatin structure (PubMed:<a href="http://www.uniprot.org/citations/16227571" target="\_blank">16227571</a>, PubMed:<a href="http://www.uniprot.org/citations/20657587" target="\_blank">20657587</a>, PubMed:<a href="http://www.uniprot.org/citations/16543150" target="\_blank">16543150</a>, PubMed:<a href="http://www.uniprot.org/citations/30224647" target="\_blank">30224647</a>). Specifically recognizes histone H4 monomethylated at 'Lys-20' (H4K20Me1) in a DNA-dependent manner and is proposed to be involved in chromosomal targeting



of the MSL complex (PubMed:<a href="http://www.uniprot.org/citations/20657587" target="\_blank">20657587</a>, PubMed:<a href="http://www.uniprot.org/citations/20943666" target="\_blank">20943666</a>).

**Cellular Location**

Nucleus.

**Tissue Location**

Expressed in many tissues including liver, pancreas, heart, lung, kidney, skeletal muscle, brain, and placenta, with highest expression in skeletal muscle and heart

**MSL3 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MSL3 Antibody (N-term) Blocking Peptide - Images****MSL3 Antibody (N-term) Blocking Peptide - Background**

This gene encodes a nuclear protein that is similar to the product of the *Drosophila* male-specific lethal-3 gene. The *Drosophila* protein plays a critical role in a dosage-compensation pathway, which equalizes X-linked gene expression in males and females. Thus, the human protein is thought to play a similar function in chromatin remodeling and transcriptional regulation, and it has been found as part of a complex that is responsible for histone H4 lysine-16 acetylation. This gene can undergo X inactivation. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 2, 7 and 8.

**MSL3 Antibody (N-term) Blocking Peptide - References**

Smith, E.R., et al. Mol. Cell. Biol. 25(21):9175-9188(2005)  
Marin, I., et al. Mol. Biol. Evol. 17(8):1240-1250(2000)  
Prakash, S.K., et al. Genomics 59(1):77-84(1999)