

MSL1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14386c**Specification**

MSL1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q68DK7
Other Accession	Q6PDM1 , NP_001012241.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	67128
Antigen Region	339-367

MSL1 Antibody (Center) - Additional Information**Gene ID** 339287**Other Names**

Male-specific lethal 1 homolog, MSL-1, Male-specific lethal 1-like 1, MSL1-like 1, Male-specific lethal-1 homolog 1, MSL1, MSL1L1

Target/Specificity

This MSL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 339-367 amino acids from the Central region of human MSL1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MSL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MSL1 Antibody (Center) - Protein Information**Name** MSL1 {ECO:0000303|PubMed:16227571, ECO:0000312|HGNC:HGNC:27905}

Function Non-catalytic component of the MSL histone acetyltransferase complex, a multiprotein complex that mediates the majority of histone H4 acetylation at 'Lys-16' (H4K16ac), an epigenetic mark that prevents chromatin compaction (PubMed:[16227571](#), PubMed:[16543150](#), PubMed:[33837287](#)). The MSL complex is required for chromosome stability and genome integrity by maintaining homeostatic levels of H4K16ac (PubMed:[33837287](#)). The MSL complex is also involved in gene dosage by promoting up-regulation of genes expressed by the X chromosome (By similarity). X up-regulation is required to compensate for autosomal biallelic expression (By similarity). The MSL complex also participates in gene dosage compensation by promoting expression of Tsix non-coding RNA (By similarity). Within the MSL complex, acts as a scaffold to tether MSL3 and KAT8 together for enzymatic activity regulation (PubMed:[22547026](#)). Greatly enhances MSL2 E3 ubiquitin ligase activity, promoting monoubiquitination of histone H2B at 'Lys-34' (H2BK34Ub) (PubMed:[21726816](#), PubMed:[30930284](#)). This modification in turn stimulates histone H3 methylation at 'Lys-4' (H3K4me) and 'Lys-79' (H3K79me) and leads to gene activation, including that of HOXA9 and MEIS1 (PubMed:[21726816](#)).

Cellular Location

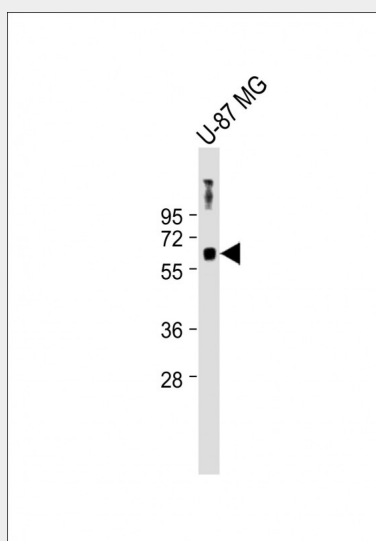
Nucleus. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q6PDM1}. Nucleus speckle {ECO:0000250|UniProtKB:Q6PDM1}

MSL1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MSL1 Antibody (Center) - Images



Anti-MSL1 Antibody (Center) at 1:1000 dilution + U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 67 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MSL1 Antibody (Center) - Background

Component of histone acetyltransferase complex responsible for the majority of histone H4 acetylation at 'Lys-16' which is implicated in the formation of higher-order chromatin structure.

MSL1 Antibody (Center) - References

Gironella, M., et al. J. Cell. Physiol. 221(3):594-602(2009)
Mendjan, S., et al. Mol. Cell 21(6):811-823(2006)
Smith, E.R., et al. Mol. Cell. Biol. 25(21):9175-9188(2005)
Marin, I. J. Mol. Evol. 56(5):527-539(2003)