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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

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).

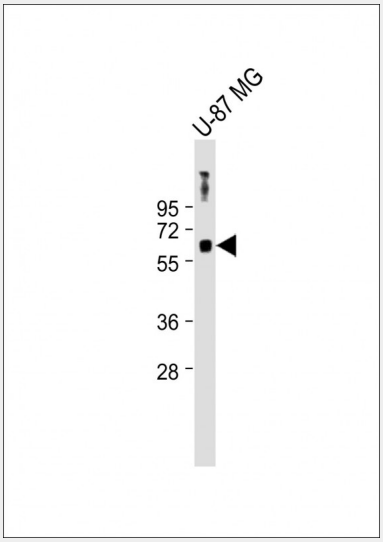
Cellular Location
Nucleus. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q6PDM1}. Nucleus speckle {ECO:0000250|UniProtKB:Q6PDM1}

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 Cytomety
- 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.

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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)